



June 2, 2025
File: PE3063-LET.06

Richcraft Group of Companies
2280 St. Laurent Blvd., Suite 201
Ottawa, Ontario
K1G 4K1

Attention: **Ms. May Pham**

Subject: **Phase I-Environmental Site Assessment Update**
815 Roger Griffiths Avenue
Kanata West Residential Development - Block 1
Ottawa, Ontario

Consulting Engineers

9 Auriga Drive
Ottawa, Ontario
K2E 7T9
Tel: (613) 226-7381

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

patersongroup.ca

Dear Madam,

Further to your request, Paterson Group (Paterson) carried out a Phase I Environmental Site Assessment (ESA) Update for the aforementioned property. This report updates a previous Phase I ESA report completed by Paterson, dated September 10, 2013. This report is intended to meet the requirements of a Phase I ESA Update, as per the MECP Standard O.Reg. 153/04, as amended, under the Environmental Protection Act. This report is to be read in conjunction with the previous report.

Site Information

The Phase I Property is vacant land. The Phase I Property is located at the northeast corner of the Roger Griffiths Avenue and Ploughshare Road intersection, in the City of Ottawa, Ontario. The Phase I property is a rectangular lot in a LC – Local Community Zone. The property is surrounded by residential properties with a wastewater pumping station present to the east of the Phase I Property. The Phase I Property is situated in a municipally serviced area. The configuration of the Phase I Property is shown on Drawing PE3063-6 - Site Plan, which is appended to this report.





Records Review

Phase I ESA Study Area Determination

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

First Developed Use Determination

Based on the historical review and interview with the current landowner, the Phase I Property was used for agricultural purposes until circa 2007, when preliminary development activities began on-site. The western portion of the Phase I Property has been used for construction trailers while excess native residential soil has been temporarily stored on the eastern portion.

Previous Engineering Reports

- ☐ *"Phase I Environmental Site Assessment, Vacant Property, Proposed Residential Development, 1620 Maple Grove Road, Ottawa, Ontario," prepared by Paterson Group, dated September 20, 2013.*

The original Phase I ESA was completed for much larger tract of land than the current Phase I Property. The results of the historical research and site assessment identified an off-site potentially contaminating activity (PCA); three (3) aboveground storage tanks (ASTs) at 1635 Maple Grove Road, located approximately 240 meters northeast of the subject site, across Poole Creek and Maple Grove Road. The abovementioned PCA at the City of Ottawa Municipal Works property was not considered to represent an area of potential environmental concern (APEC) on the Phase I Property based on the separation distance and the presence of Poole Creek, separating the two properties. A Phase II ESA was not recommended.

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on April 9, 2025. The Phase I property 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.

MECP Coal Gasification Plant Inventory

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



MECP Brownfields Environmental Site Registry

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

Areas of Natural Significance

A search for areas of natural and scientific interest situated within the Phase I study area was conducted electronically via the Ontario Ministry of Natural Resources and Forestry (OMNRF) website. The search did not identify any natural features or 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 to inquire about current and former underground storage tanks for the site and neighbouring properties. No records are listed in the TSSA registry for the Phase I property. Multiple fuel tank records were recorded for the property adjacent to the east of the Phase I Property. Based on their distance away (at least 50m) these records are not considered to pose a potential environmental concern to the Phase I Property. The response from the TSSA is appended to this report.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I-Identification of Sites, City of Ottawa”, was reviewed. No former landfill sites were identified within the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A requisition was sent to the City of Ottawa to request information from the City’s Historical Land Use Inventory database for the Phase I property. A response had not been received at the time of issuing this report. A copy of the HLUI search results will be forwarded to the client. A copy of the request has been included in the Appendix.

The HLUI Response from the 2013 Phase I ESA was reviewed as part of the Phase I ESA Update. The HLUI response letter indicated that no activities were associated with the subject property. Three activities were associated with the property addressed 1635 Maple Grove Road (approximately 95m northwest of the subject property). These activities pertain to automotive repair/sales shop that occupied 1635 Maple Grove Road from 1995 until 2005. Due to its distance away, this property is not considered to pose a potential environmental concern to the Phase I Property.



ERIS Database Report

A database report, prepared by ERIS (Environmental Risk Information Services) Ltd., dated April 7, 2025, was acquired and reviewed as part of this assessment. The complete ERIS report has been included in the attachments.

☐ *On-Site Records:*

The ERIS report did not identify any records pertaining to the Phase I Property.

☐ *Off-Site Records:*

Sixteen (16) records were identified within the Phase I study area, including Environmental Activity and Sector Registry, Environmental Compliance Approval, ERIS historical searches, Ontario Spills, Permit to Take Water and water well records.

Environmental Activity and Sector Registry record pertain to Waste Management System approval for the property located at 1625 Maple Grove Road. Environmental compliance approvals were limited to municipal and private sewage works and air approvals. Well records included test holes and monitoring wells associated with nearby geological / geotechnical monitoring well records associated with nearby residential development. Four spills were identified for the properties located at 1625 Maple Grove Road, approximately 95m northwest of the Phase I Property and at 1590 Maple Grove Road, immediately east of the Phase I Property. The spills pertain to sediment and unchlorinated sewage spills. Due to their nature, these records are not considered to pose a potential environmental concern to the Phase I Property. No potentially contaminating activities were identified in the ERIS reports.

Aerial Photographs

The latest aerial image in the 2013 Phase I ESA report was from 2002. For this update, aerial photographs from 2011 and 2022, accessed via the City of Ottawa's online mapping website, were reviewed.

In the 2011 aerial photograph, excavation activities can be seen taking place on the subject site and surrounding properties. Residential dwellings have been constructed further west of the subject site. No other significant changes were identified with respect to the Phase I property or the neighbouring properties since the time of the previous 2002 aerial photograph.

In the 2022 aerial photograph, the eastern portion of the subject site has been stripped and the western portion is being used for construction trailers. Residential dwellings and roads that are part of the Kanata West Development have been constructed in the general area of the subject site. A municipal sewage pumping station has been constructed immediately east of the Phase I Property. No other significant changes were identified



with respect to the Phase I properties or the neighbouring properties since the time of the previous 2011 aerial photograph.

A copy of the 2011 and 2022 aerial photographs have been appended to this report.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada - The Atlas of Canada website. The topographic maps indicate that the regional topography in the area of the subject site is generally flat. According to the maps, Carp River is located approximately 85m to the west. The regional topography slopes down to the northwest in the direction of the Carp River. No environmental concerns were identified on the topographic mapping. An illustration of the referenced topographic map is present on Figure 2 - Topographic Map following the body of this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada - The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: "The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets." The Phase I property is located in the Central St. Lawrence Lowland, "where the land is rarely more than 150 m above sea level, except for the Monteregian Hills, which consist of intrusive igneous rocks".

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and shale of the Verulam Formation. Overburden soils are reported as offshore marine sediments with drift thickness on the order of 5 to 15m over the majority of the Phase I Property.

Water Well Records

A search of the MECP website returned 7 well records identified in the Phase I study area, including abandonment records and geotechnical test holes. The well records were drilled between 2012 and 2022 for nearby residential developments.

According to the well records, the stratigraphy in the area consisted of sandy clay, followed by clay which was underlain by limestone bedrock. No concerns were identified during the well record review.





Property Owner Representative Interview

Ms. May Pham, of Richcraft, was interviewed as part of this update. Ms. Pham was unaware of any potential environmental concerns on the subject and neighbouring properties.

Site Reconnaissance

Our site reconnaissance visit was conducted on April 9, 2025. Weather conditions were overcast with a temperature of approximately 5° C. Mr. Mohammed Ramadan from the Environmental Department of Paterson Group conducted the site inspection.

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.

Exterior Assessment

The eastern portion of site is vacant with some indications of pre-development occurring (site stripped of topsoil), which appears undulating. The western portion of the subject property is being used for construction trailers. Drainage consists of infiltration. The regional topography slopes towards the northwest towards Carp River.

No aboveground or underground storage tanks were observed on the subject property. No water wells were observed on the property; however, the property is located in an area municipally serviced and was formerly privately serviced.

No evidence of current or former railway or spur lines was observed on the subject property at the time of the site inspection. There were no unidentified substances observed on the subject site.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area is residential to the south and west, industrial to the east and commercial to the north. One (1) PCA was identified within the Phase I Study Area and it pertains to an automotive repair garage located at 1625 Maple Grove Road north of the Phase I Property, across Maple Grove Road. This property is not considered to pose a potential environmental concern due to its down-gradient orientation and its recent operation as an auto repair garage. Current land use within the Phase I Study Area is illustrated on Drawing: PE3063-7 – Surrounding Land Use Plan in the Figures section of this report, following the text.



Review and Evaluation of Information

Land Use History

Based on the historical review and interview with the current landowner, the Phase I Property was used for agricultural purposes. The western portion of the Phase I Property has been used as a construction staging area since 2017.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No potentially contaminating activities (PCAs) were identified on the Phase I Property. Two (2) PCAs were identified within the Phase I ESA Study Area but were deemed not to pose a potential environmental concern to the Phase I Property. Therefore, there are no areas of potential environmental concern (APECs).

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified on the Phase I Property.

Conceptual Site Model

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of interbedded limestone and shale of the Verulam Formation. Overburden soils are reported as offshore marine sediments with drift thickness on the order of 5 to 15m over the majority of the Phase I Property.

Groundwater flow is interpreted to be in a northern direction towards the Carp River.

Existing Buildings and Structures

No buildings or structures are present on the Phase I Property.

Water Bodies

The nearest named body of water is Poole Creek, located approximately 85m west of the Phase I property.

Areas of Natural Significance

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





Drinking Water Wells

No domestic potable wells were observed on the Phase I Property nor are there expected to be any present on-site as the Phase I property has never been formally developed.

Neighbouring Land Use

Neighbouring land use in the Phase I study area consists of residential to the south and west, industrial to the east and commercial to the north. Land use is shown on Drawing number PE3063-7- Surrounding Land Use Plan

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no PCAs were identified on the Phase I property. Two PCAs were identified within the Phase I study area.

No Areas of Potential Environmental Concern 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 Update is considered to be sufficient to conclude that there are no APECs on the Phase I Property.

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

Conclusions

Based on the results of this Phase I ESA Update, **it is our opinion, that a Phase II Environmental Site Assessment is not required for the property.**

Statement of Limitations

This Phase I - Environmental Site Assessment Update report has been prepared under the supervision of a Qualified Person in general accordance with the agreed scope-of-work and O.Reg. 153/04. The conclusions presented herein are based on information gathered from a historical review and field inspection program.

The findings of the Phase I ESA Update are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies and was limited within the scope-of-work, time, and budget of the project herein.



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

This report was prepared for the sole use of Richcraft Group of Companies. Permission and notification from Richcraft Group of Companies and this firm will be required to release this report to any other party.

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

Paterson Group Inc.

Mohammed Ramadan, B.Sc.

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



Report Distribution:

- Richcraft Group of Companies (1 copy)
- Paterson Group (1 copy)

Attachments:

- Figure 1 - Key Plan
- Figure 2 - Topographic Map
- 2011 and 2022 Aerial Images
- Drawing PE3063-6 - Site Plan
- Drawing PE3063-7 - Surrounding Land Use Plan
- MECP FOI Response
- TSSA Correspondence
- HLUI Response Letter
- ERIS Report

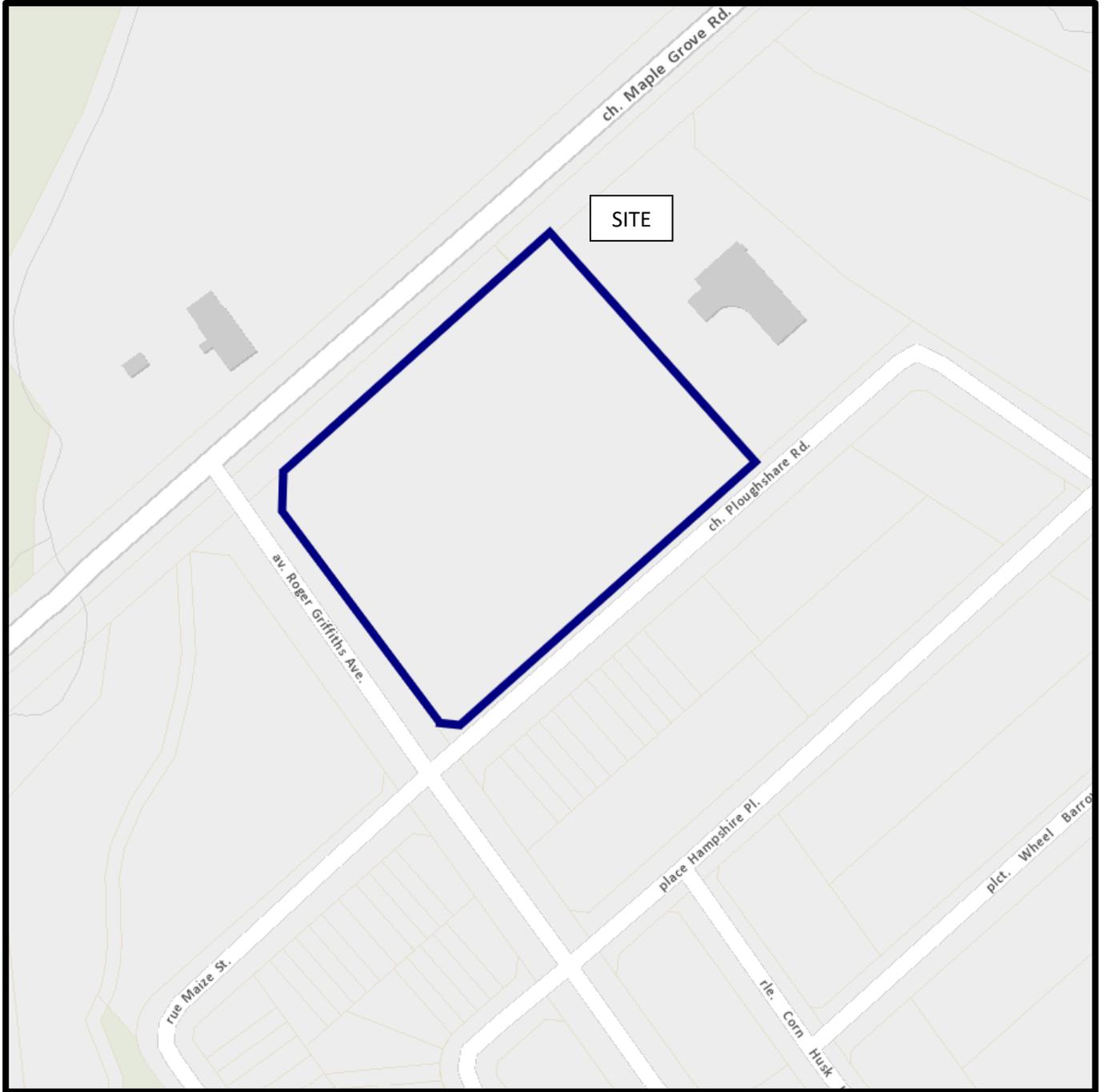


FIGURE 1
KEY PLAN

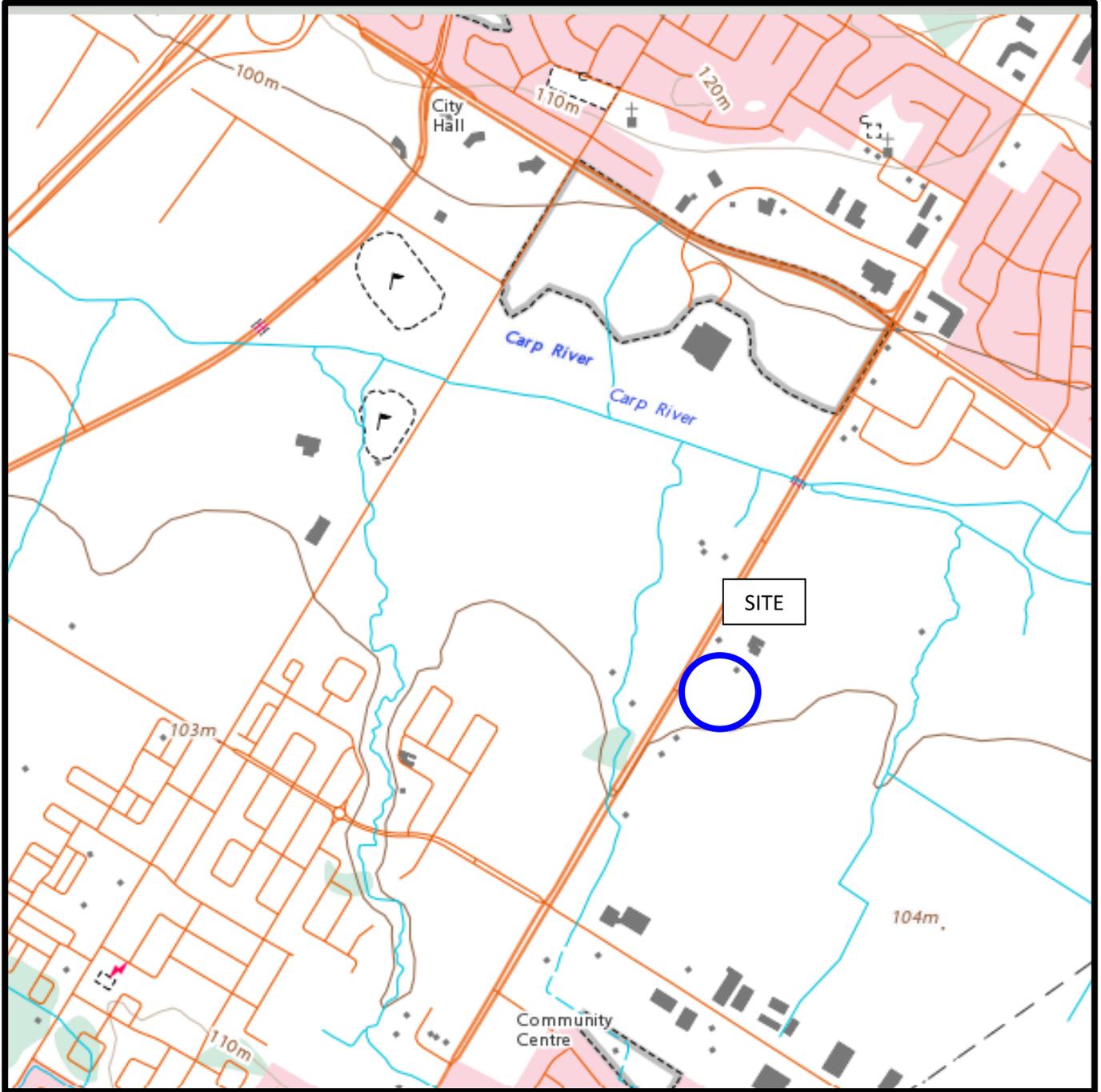


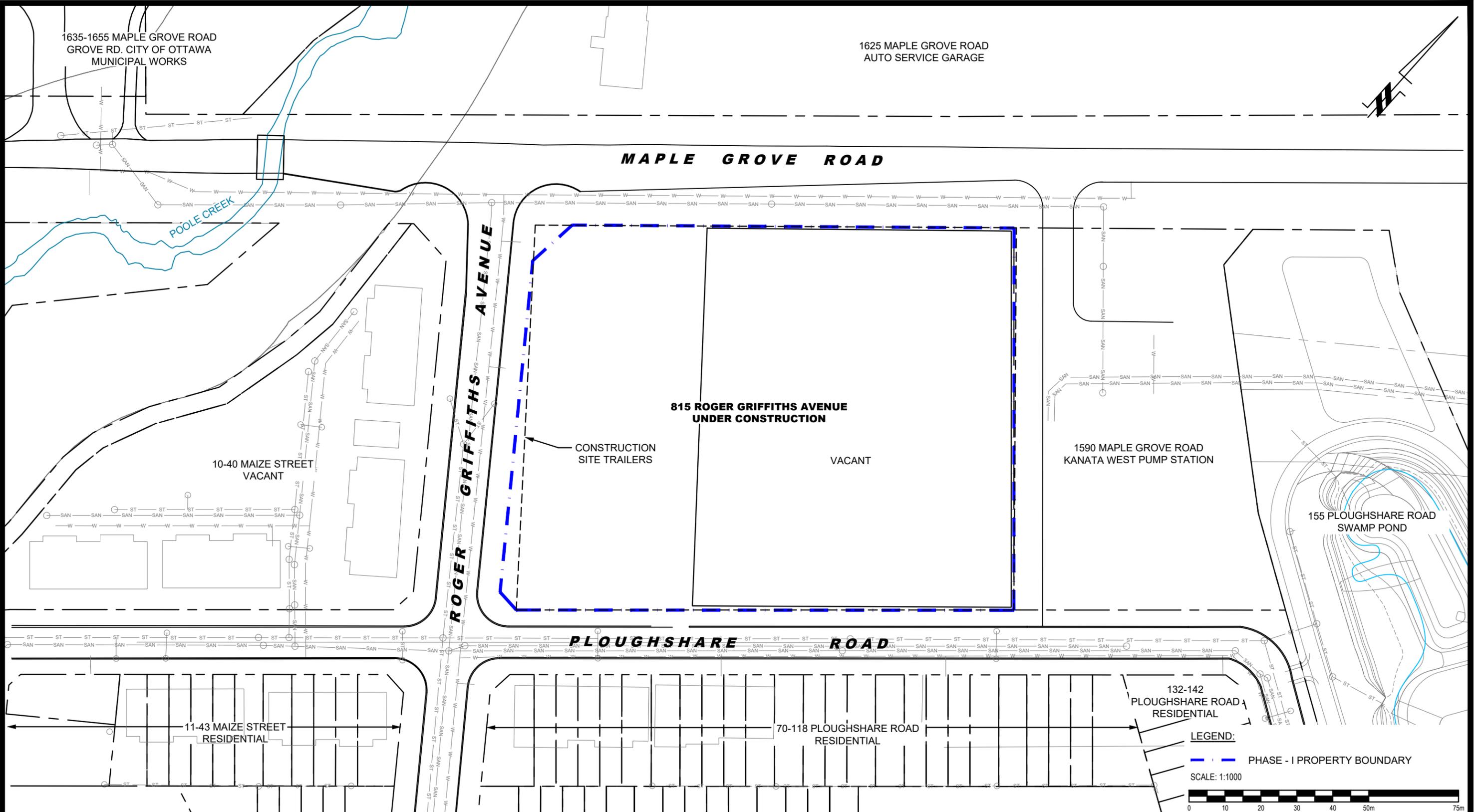
FIGURE 2
TOPOGRAPHIC MAP



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2022



NO.	REVISIONS	DATE	INITIAL

RICHCRAFT GROUP OF COMPANIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE
815 ROGER GRIFFITHS AVENUE
 OTTAWA, ONTARIO
SITE PLAN

Scale:	1:1000	Date:	04/2025
Drawn by:	GK	Report No.:	PE3063-LET.06
Checked by:	MR	Dwg. No.:	PE3063-6
Approved by:	MSD	Revision No.:	



PHASE I - ENVIRONMENTAL SITE ASSESSMENT STUDY AREA

LEGEND:
 PHASE - I PROPERTY BOUNDARY
 SCALE: 1:3000

POTENTIALLY CONTAMINATING ACTIVITIES :

ID #	PCA ID	ADDRESS	DESCRIPTION
1	52	1625 MAPLE GROVE ROAD	CURRENT AUTOMOTIVE SERVICE GARAGE
2	28	1590 MAPLE GROVE ROAD	CURRENT ABOVEGROUND STORAGE TANKS

9 AURIGA DRIVE
 OTTAWA, ON
 K2E 7T9
 TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

RICHCRAFT GROUP OF COMPANIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE
815 ROGER GRIFFITHS AVENUE

OTTAWA, ONTARIO

Title: **SURROUNDING LAND USE PLAN**

Scale:	1:3000	Date:	04/2025
Drawn by:	GK	Report No.:	PE3063-LET.06
Checked by:	MR	Dwg. No.:	PE3063-7
Approved by:	MSD	Revision No.:	

Ministry of
the Environment

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de
l'Environnement

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

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc. : (416) 314-4285



August 7, 2013

Adrian Menyhart
Paterson Group Inc
154 Colonnade Rd S
Ottawa, ON K2E 7J5

Dear Adrian Menyhart:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File # A-2013-03814, Your Reference PE3063

This letter is further to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 1620 Maple Grove Road, Orrawa.

Attached is a copy of the records.

If you have any questions regarding this matter, please contact Christopher Mastropietro at 416-314-1876.

Yours truly,

A handwritten signature in blue ink, appearing to read "Heidi Ritscher".

 Heidi Ritscher
FOI Manager

Attachment



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 0251-6XPLBL
Issue Date: January 29, 2007

Mattamy (Poole Creek) Limited
123 Huntmar Dr
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision
Lot 27 & 28, Concession 12
Ottawa City,

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

the establishment of stormwater management *Works* for the collection, transmission, treatment and disposal of stormwater runoff from a catchment area of approximately 59.2 hectares, to provide enhanced water quality protection and to attenuate post-development peak flows to pre-development levels, discharging to Poole Creek, for all storm events up to and including the 100 year return storm, consisting of the following:

Stormwater Management System

A stormwater management system to service Phase 1 of Mattamy Homes Fairwinds Subdivision, bound by Maple Grove Road to the north-west, Poole Creek to the east and a proposed residential development to the west, general area north of Hazeldean Road, west of Carp River in the City of Ottawa, relying on an interim wet pond facility sized to provide treatment and control for 59.2 ha drainage area comprising Phase 1 (9.65 ha), and Phase 2 (14.98 ha) of the Fairwinds Subdivision, roadway blocks (~ 3.42 ha), and a proposed external residential area to the north (22.59 ha), all tributary to the future Pond P4, proposed under the Kanata West Master Servicing Study, and a 7.42 ha area to the south, south of Pool Creek, tributary to the future Pond P5 per the Master Servicing Study.

Stormwater Management Facility features include a sediment forebay (2 m deep × 63 m long × 27 m wide) followed by the main pond cell with a Normal Water Level of 2 m providing a design minimum liquid retention volume (permanent pool) of 10,000 cubic metres (m³) and extended detention volume of 5,700 m³. Facility outlet control is provided through a three stage outlet control structure. The first 0.3 m of active storage is controlled by a 75 mm orifice with its invert set at the normal water level, allowing a slow drawdown of 8 days to provide flow augmentation for Pool Creek. The secondary and tertiary pond outlets are comprised of a 370 mm × 150 mm opening with invert at the top of flow augmentation volume, and a 1150 mm concrete weir with crest set below 2 year water level. The weir/orifice assembly

provides 27 hour extended detention control for quality, quantity and erosion control volumes allowing control for 2 to 100 year events. A separate emergency overflow spillway is also provided with crest level set above the 100 year water level. Discharge from the outlet control structure occurs through a 1350 mm pipe outleting to Pool Creek. A 300 mm maintenance outlet also discharging to Pool Creek is provided as well. Peak release rate for extended detention is estimated as 0.10 cubic metres per second (m^3/sec), and the maximum controlled 100 year peak release rate is estimated as 2.14 m^3/s .

Also included are the erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works* ;

all in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Mr. Robert L. Phillips, C.E.T. of the City of Ottawa Infrastructure Approvals Division as a direct submission on behalf of Mattamy (Poole Creek) Limited, received November 17, 2006;
2. Report entitled, "Mattamy Homes Fairwinds Subdivision Stormwater Management Report and Temporary Stormwater Management Facility Design Brief", dated October 10, 2006 including the enclosed engineering plans and design drawings prepared by Stantec Consulting Ltd.
3. Revised report entitled, "Mattamy Homes Fairwinds Subdivision Phase 1 Stormwater Management Report and Temporary Stormwater Management Facility Design Brief", dated January 11, 2007 including the enclosed engineering plans and design drawings prepared by Stantec Consulting Ltd.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"*Certificate* " means this entire certificate of approval document, issued in accordance with Section 53 of the Ontario Water Resources Act, and includes any schedules;

"*Director* " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

"*District Manager* " means the District Manager of the Ottawa District Office of the *Ministry* ;

"*Ministry* " means the Ontario Ministry of the Environment;

"*Owner* " means Mattamy (Poole Creek) Limited and includes its successors and assignees;

"*Works* " means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate* .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate*.

(2) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate*.

3. CHANGE OF OWNER

The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* .

4. **OPERATION AND MAINTENANCE.**

(1) The *Owner* shall ensure that the design minimum liquid retention volume(s) is maintained at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive buildup of sediments and/or vegetation.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the *Owner's* Corporate Head Office for inspection by the *Ministry*. The logbook shall include the following:

(a) the name of the *Works*; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. **RECORD KEEPING**

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Certificate*.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected.
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works*.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

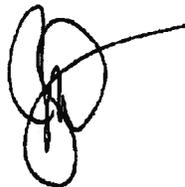
AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 29th day of January, 2007



Mohamed Dhalla, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

FP/

c: District Manager, MOE Ottawa
Tim Wilkie, Stantec Consulting Ltd.

**CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 4886-7YTL68
Issue Date: December 18, 2009**

Riotrin Properties (Hazeldean) Inc.
359 Kent Street, No. Unit 400
Ottawa, Ontario
K2P 0R6

Site Location: Hazeldean Road Commercial Development
Hazeldean Road & Carp Road
Lot 28, 29, Concession 12
City of Ottawa

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

sanitary sewers, storm sewers, an interim sanitary sewage pumping station, and forcemain to be constructed to service Hazeldean Road Commercial Development comprising the following:

- **storm and sanitary sewers** on Hazeldean Road Commercial Development;
- **one (1) interim sanitary sewage pumping station** located at the north end of Street2 (East ROW) within the Hazeldean Road Commercial Development, City of Ottawa to service a total commercial area (excluding ROW) of 11.27 ha, designed with a firm capacity of 13.3 L/s, consisting of a 2.44m diameter wet well equipped with two (2) Flygt NP3102 SH 600V 6.5HP sewage pumps with 135mm diameter impeller, one for duty and one standby, each pump has a rated capacity of 13.3 L/s at a total dynamic head of 19.7 m, process piping and valves, electrical and control equipment, provision for connection to a portable standby generator set, complete with all other appurtenances necessary to have a complete and operable pumping station, discharging to an existing 200mm diameter sanitary sewer;
- **interim sanitary forcemain** 145mm diameter, 1620m length from the pumping station to an existing sanitary manhole at Iber Road, 400m south of Hazeldean Road;

all in accordance with the application dated November 6, 2009 and received on November 13, 2009, and all supporting documentation and information including a design brief (or report), final plans and specifications prepared by Stantec Consulting Ltd.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

1. "Act " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0,40, as amended;
2. "Certificate " means this entire certificate of approval document, issued in accordance with Section 53 of the Act , and includes any schedules;
3. "Director " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Act ;
4. "District Manager " means the District Manager of the Ottawa District Office of the Ministry;
5. "Ministry " means the Ontario Ministry of the Environment;
6. "Owner " means Riotrin Properties (Hazeldean) Inc. and includes its successors and assignees;
7. "Regional Director " means the Regional Director of the Eastern Region of the Ministry;
8. "Substantial Completion " has the same meaning as "substantial performance " in the Construction Lien Act; and
9. "Works " means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate*.
10. "Interim Works" means the works to be used for short-term purposes only and will be for no more than five (5) years from the date of issuance of this *Certificate*, until otherwise approval for an extension of this period has been granted.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

- 1.1 The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .
- 1.3 Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate* , the Conditions in this *Certificate* shall take precedence, and where

there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

- 1.4 Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Certificate* shall not be affected thereby.

2. EXPIRY OF APPROVAL

- 2.1 The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate*.
- 2.2 This Certificate of Approval will cease to apply to the *Interim Works* as of December 31, 2014 until otherwise approval for an extension of this date has been granted. If an approval of such an extension has not been granted, then in such a case the *Owner* shall submit a written report to the *District Manager* by September 30, 2014 outlining the procedures or plans on how the *Interim Works* will be decommissioned by the expiry date.

3. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

- 3.1 Upon the *Substantial Completion* of the *Works*, the *Owner* shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with this *Certificate*, and upon request, shall make the written statement available for inspection by Ministry personnel.
- 3.2 Within one year of the *Substantial Completion* of the *Works*, a set of as-built drawings showing the works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the *Works* for the operational life of the *Works*.

4. OPERATION AND MAINTENANCE

- 4.1 The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works*.
- 4.2 The *Owner* shall prepare an operations manual within six (6) months of *Substantial Completion* of the *Works*, that includes, but not necessarily limited to, the following information:

- (a) operating procedures for routine operation of the *Works* ;
 - (b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;
 - (c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;
 - (d) procedures for the inspection and calibration of monitoring equipment;
 - (e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager* ; and
 - (f) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
- 4.3 The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works* . Upon request, the *Owner* shall make the manual available to *Ministry* staff.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the *Owners* their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment. Condition 2.2 is included to require that the approved *Interim Works*, are properly operated, maintained and decommissioned as per original plans of the *Owner* .
3. Condition 3 is included to ensure that the *Works* are constructed in accordance with the approval and that record drawings of the *Works* "as constructed" are maintained for future references.
4. Condition 4 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the *Owner* and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works* . Its compilation and use should assist the *Owner* in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for *Ministry* staff when reviewing the *Owner*' s operation of the *Works* .

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
MSG 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 18th day of December, 2009



Zafar Bhatti, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

KH/

c: District Manager, MOE Ottawa District.
Peter Moroz, P. Eng., Stantec Consulting Ltd.

**AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 7506-89HQRE
Issue Date: March 31, 2011**

Riotrin Properties (Hazeldean) Inc.
359 Kent St, No. Unit 400
Ottawa, Ontario
K2P 0R6

Site Location: Hazeldean Interim SWM Facility
Lot 28, 29, Concession 12, Goulbourn
City of Ottawa, ON

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

the establishment of interim stormwater management *Works* for the collection, transmission, treatment and disposal of stormwater runoff from a catchment area of 18.86 hectares, consisting of commercial buildings, to provide Normal water quality protection and to attenuate post-development peak flows to pre-development levels, in the interim condition discharging to the Carp River, for all storm events up to and including the 100 year return period storm, consisting of the following:

Proposed Works:

Stormwater Management System

Minor site grading changes and correction of design drainage areas between the subject site and the adjacent Hazeldean Road Extension design, consisting in the following:

- Modified existing drainage boundaries for an increase in the total catchment area of 19.14 hectares.
- The existing interim pond is modified as having a design minimum liquid retention volume of 7,994 m³ at elevation 95.20 m, which includes at least 2,087 m³ of permanent pool at an elevation of 93.75 m (outlet invert) and at least 40 m³/hectare of extended detention, and equipped with structures to provide for a controlled discharge flow of no more than 1.65 m³/sec.
- Storage for a design liquid retention volume of at least 170 m³/hectare in the ultimate scenario and sufficient storage in the interim scenario to prevent spilling of flows off site up to the 100 year design event.

Existing Works:

Stormwater Management System

An interim stormwater management system to service the Hazeldean commercial development and road widening, located on Hazeldean Road west from Terry Fox Drive, relying on the following:

- An interim pond having a design minimum liquid retention volume of 7,994 m³ at elevation 95.20 m, which includes 2,087 m³ of permanent pool at an elevation of 93.75 m (outlet invert) and 5,907 m³ of extended detention.
- The pond is equipped with a forebay of approximately 60 m length and 1.0 m depth; an outlet structure of 125 mm orifice (93.75 m elevation); 600 mm and 1200 mm concrete weirs (94.20 m and 94.71 m elevations respectively); and a 6.1 m emergency overflow weir (95.21 m elevation).
- A combination of permanent and interim Internal Control Devices (ICDs) IPEX Models A-F (or equivalent), Hydrovex vertical vortex flow regulators, and circular orifice plugs, sized to maximize volume storage for the 100 year storm event by allowing surface ponding roof.
- Permanent restricted flow roof drains located on building rooftops not exceeding 61 mm depth, equipped with standard Zum Model Z-105-5 Control-Flow Single Notch Roof Drain (or equivalent).

The above, including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works*.

All in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Elizabeth Henderson, Development Director of Riotrin Properties (Hazeldean), dated November 10, 2009, and signed off by Guy Bourgon, P.Eng., of the City of Ottawa.
2. Trinity - Hazeldean Road, Interim Stormwater Management Facility Design Brief, 3rd Revision: October 13, 2009, prepared by Stantec Consulting of Ottawa.
3. Hazeldean Road, Ottawa, Site Stormwater Management Report, 4th Revision: October 13, 2009, prepared by Stantec Consulting of Ottawa.
4. Letter from Peter Moroz, P.Eng., of Stantec Consulting to Edgardo Tovilla, P.Eng., of the MOE, dated December 7, 2009, in response to comments by MOE.
5. Memo dated December 23, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to Jason Schaefer, P.Eng., of the MOE with additional supporting information re: the sanitary sewage system capacity and timelines for infrastructure upgrades.
6. City of Ottawa and KWOG Response to the Minister's Order by letter dated August 24, 2009.

7. Implementation Plan Kanata West Development Area, City of Ottawa, October 2009.
8. Application for Approval of Municipal and Private Sewage Works submitted by o Elizabeth Henderson, Development Director of Riotrin Properties (Hazeldean), dated April 14, 2010, and signed off by Guy Bourgon, P.Eng., of the City of Ottawa on June 7, 2010.
9. Hazeldean Interim SWM Facility - Monitoring Program, prepared by AECOM, dated October 15, 2010.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Certificate" means this entire Certificate of Approval document, issued in accordance with Section 53 of the *Ontario Water Resources Act* , and includes any schedules;
- (2) "Director" means any Ministry employee appointed by the Minister pursuant to Section 5 of the *Ontario Water Resources Act* ;
- (3) "Existing Works" means of the sewage works previously constructed and approved under a certificate of approval;
- (4) "Ministry" means the Ontario Ministry of Environment;
- (5) "Regional Director" means the Regional Director of the Eastern Region of the Ministry;
- (6) "District Manager" means the District Manager of the Ottawa District Office of the Ministry's Eastern Region;
- (7) "Owner" means Riotrin Properties (Hazeldean) Inc.;
- (8) "Proposed Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;
- (9) "Municipality" means the City of Ottawa; and,
- (10) "Works" means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this Certificate and includes both Proposed Works and Existing Works.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate*.

(2) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate*.

3. CHANGE OF OWNER

The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* .

4. OPERATION AND MAINTENANCE.

(1) The *Owner* shall ensure that the design minimum liquid retention volume(s) is maintained at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive buildup of sediments and/or vegetation.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the *Owner's* offices for inspection by the *Ministry*. The logbook shall include the following:

(a) the name of the *Works*; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. RECORD KEEPING

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Certificate*.

6. MONITORING PROGRAM

(1) The *Owner* shall implement the monitoring program contained in AECOM Memo, dated October 15, 2010, for a minimum of two years and shall continue to be implemented until such time written notice is provided by the *District Manager*.

(2) The *Owner* shall submit an annual stormwater monitoring report to the *District Manager* by March 31 of each calendar year. The annual reports shall cover the monitoring period for the previous calendar year.

(3) The *Owner* shall provide a copy of the annual monitoring reports and its associated data to the City of Ottawa, so that the City can review it and include those results in the City's Annual Overall Monitoring Report in accordance with the Implementation Plan for the Kanata West Development Area.

(4) The *Owner* shall include in the annual monitoring reports for the reporting period the following:

(a) an estimate of baseflow from the stormwater management (SWM) facility;

(b) an estimate of the percentage of build out for the contributing drainage area of the

SWM facility; and

(c) a description of any consideration that may need to be implemented upon transition and/or decommissioning of the interim facility once an ultimate SWM facility is provided.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected.
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works*.
6. Condition 6 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works*, on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the Carp River watershed objectives specified in the City of Ottawa's response to the Minister's Order of July 21, 2008, and its Implementation Plan - Kanata West Development Area report, and that the *Works* does not cause any impairment to the receiving watercourse.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 2213-7YETBS issued on January 4, 2010.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 31st day of March, 2011



Ian Parrott, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

ET/

c: District Manager, MOE Ottawa
Peter Moroz, Stantec Consulting Ltd.

**AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 4843-86MKPD
Issue Date: June 23, 2010**

City of Ottawa
100 Constellation Crescent
Ottawa, Ontario
K2G 6J8

Site Location: Hazeldean Road & Carp Road
Lot 28, 29, Concession 12
City of Ottawa

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

stormwater management works in the City of Ottawa comprising;

Proposed Works

- *revision of the size of two (2) culverts, each approximately 30m long 4500mm by 1500mm deep HE culverts* located under future access roads at stations 0+600 and 0+890, complete with wing walls, rip rap stilling basins, and appurtenances;

- *removal of the two (2) culverts, each approximately 25m long 1800mm diameter CSP culverts* located at stations 0+100 and 0+415, used for temporary access;

Works previously approved under the C of A No. 2627-7JDEHO dated December 15, 2008

relocation and realignment of the existing Hazeldean Tributary of Carp River located in Shenkman Corporation property within the former Township of Goulburn, City of Ottawa, servicing as a stormwater conveyer for approximately 125ha. mixed industrial /commercial /recreational drainage area, comprising of the following:

1. Culvert Construction:

- two (2), each approximately 25m long 1800mm diameter CSP culverts located at stations 0+100 and 0+415, under proposed access roads, complete with wing walls, rip rap stilling basins and appurtenances, now being removed;

2. Culvert Construction (future):

- two (2), each approximately 20m long 2400mm by 1500mm deep HE culverts located under

future access roads at stations 0+600 and 0+890, complete with wing walls, rip rap stilling basins, and appurtenances, now requiring a size revision as per the proposed works;

3. Open Channel Realignment (0+040 to 0+420):

- an approximately 380m long, 16m top width, 3m base shelf width, open channel with 1:3 side slope, complete with 0.5m bottom width low flow channel in low-lying grassed shelves, within the 16m wide drainage corridor,

4. Naturalized Channel Realignment (0+420 to 1+164m and match the existing natural channel to the Carp River Outfall):

- an approximately 740m long, 20m top width, 1.5m to 12m base shelf width, naturalized, meandering channel with 1:3 side slope, complete with small riffles and pool sequences with low-lying grassed shelves within the 30m wide storm drainage right of way; all to join and match with the existing Creek prior to discharge into the Carp River;

all in accordance with the **Application for Approval of Municipal and Private Sewage Works**, dated

1. May 3, 2010 and received on May 6, 2010 including final plans and specifications and other additional information prepared by City of Ottawa and Stantec Consulting Ltd, and;

2. April, 2008, reports, correspondences and addendum documents prepared and submitted by Matt Wingate, P.Eng, Stantec Consulting Ltd., Consulting Engineers.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"Certificate" means this entire certificate of approval document, issued in accordance with Section 53 of the Ontario Water Resources Act, and includes any schedules;

"Director" means any Ministry employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

"District Manager" means the District Manager of the Ottawa District Office of the Ministry;

"Ministry" means the Ontario Ministry of the Environment;

"Owner" means City of Ottawa and includes its successors and assignees;

"Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Certificate, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Certificate.

(2) Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this Certificate will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Certificate.

3. CHANGE OF OWNER

The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

- (a) change of Owner;
- (b) change of address of the Owner;
- (c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; and
- (d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

4. OPERATION AND MAINTENANCE.

(1) The Owner shall inspect the Works at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation in the pond and waterways.

(2) The Owner shall take adequate measure to provide for effective and long term sediment and erosion control measures to protect aquatic systems during construction and after construction is over to minimise any impact to water bodies and the wetland natural channel. The Owner shall undertake

photography and install erosion pins at strategic locations to determine and keep record of bank erosion and suggest recommendation for any protection measures required, to the District Engineer.

(3) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook ready at all the times for inspection by the Ministry. A weekly visit and inspection by a qualified fisheries professional shall be undertaken during in-water construction works and after completion of construction to such a time that the work areas are stabilized, plantations have grown in and fish habitat is restored. The logbook shall include the following:

- (a) the name of the Works; and
- (b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed, estimate of bank erosion showing photograph and pin position; and fish habitat displaced and or restored.

5. RECORD KEEPING

The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Certificate.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment..
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected .
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works on a continual basis .

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 2627-7JDHDQ issued on December 15, 2008.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 23rd day of June, 2010



Jennifer Barolet, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

KH/

c: District Manager, MOE Ottawa District.
Peter Spal, Stantec Consulting Ltd.

AMENDED ENVIRONMENTAL COMPLIANCE APPROVALNUMBER 1637-97GH8Q
Issue Date: May 10, 2013

Riotrin Properties (Hazeldean) Inc.
2275 Lake Shore Boulevard West, Suite 400
Toronto, Ontario
M8V 3Y3

Site Location: Hazeldean Interim SWM Facility
Lot 28, 29, Concession 12, Goulbourn
City of Ottawa

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

an amendment to the interim stormwater management Works servicing the Hazeldean commercial development consisting of commercial buildings and road widening, located on Hazeldean Road west from Terry Fox Drive in the City of Ottawa for the collection, treatment and disposal of stormwater run-off to provide Normal Level water quality control and erosion protection and to attenuate post-development peak flows to pre-development levels for all storm events up to and including the 100-year storm event, discharging to the Carp River and Ottawa River, consisting of the following:

Proposed Works:

Modification of the Stormwater Management System (19.12 hectare catchment area) - relocation of the interim wet pond inlet and reconfiguration of the interim wet pond, as follows:

- relocate the inlet from the existing 1350 mm diameter inlet pipe to the north end of the sediment forebay and modify the drainage area to the interim wet pond to 19.12 hectares,
- regrade and reconfigure the interim wet pond, having a design minimum liquid retention volume of 8,578 m³ at elevation 95.20 m, which includes a permanent pool volume of 2,456 m³ at an elevation of 93.75 m (outlet invert) and an extended detention volume of 1,412 m³ at an elevation of 94.20 m, to provide a controlled discharge from the pond of no more than 1.71 m³/sec for the 100-year storm event;

Previous Works:

Modification to Stormwater Management System (19.14 hectare catchment area) - minor site grading changes and correction of design drainage areas between the subject site and the adjacent Hazeldean Road Extension design, as follows:

- modify and increase the drainage area to the interim wet pond to 19.14 hectares,
- modify the interim wet pond, having a design minimum liquid retention volume of 7,994 m³ at elevation 95.20 m, which includes at least 2,087 m³ of permanent pool volume at an elevation of 93.75 m (outlet invert) and at least 40 m³/hectare of extended detention, to provide a controlled discharge from the pond of no more than 1.65 m³/sec,
- provide storage for a design liquid retention volume of at least 170 m³/hectare in the ultimate scenario and sufficient storage in the interim scenario to prevent spilling of flows off site for up to the 100-year storm event;

Stormwater Management System (18.86 hectare catchment area) - an interim stormwater management system, as follows:

- an interim wet pond having a design minimum liquid retention volume of 7,994 m³ at elevation 95.20 m, which includes 2,087 m³ of permanent pool volume at an elevation of 93.75 m (outlet invert) and 5,907 m³ of extended detention volume, complete with a sediment forebay having a length of approximately 60 m and a depth of 1.0 m, an outlet structure with a 125 mm orifice at elevation 93.75 m, 600 mm and 1200 mm concrete weirs at elevation 94.20 m and 94.71 m respectively, and a 6.1 m emergency overflow weir at elevation 95.21 m,
- a combination of permanent and interim Internal Control Devices (ICDs) IPEX Models A-F, Hydrovex vertical vortex flow regulators (or Approved Equivalent), and circular orifice plugs, sized to maximize the volume of surface water storage for up to the 100-year storm events,
- restricted flow roof drains located on building rooftops not exceeding 61 mm in depth, equipped with standard Zum Model Z-105-5 Control-Flow Single Notch Roof Drain (or Approved Equivalent);

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works.

all in accordance with the submitted supporting documents listed in Schedule "A" forming part of this Approval.

For the purpose of this environmental compliance approval, the following definitions apply:

"Approval" means this entire document including the application and any supporting documents listed in any schedules in this Approval;

"Approved Equivalent" means a substituted product that meets the required quality and performance standards of a named product and has been approved for substitution in writing by the District Manager or the Director;

"Director" means a person appointed by the Minister pursuant to section 5 of the Environmental Protection Act for the purposes of Part II.1 of the Environmental Protection Act;

"District Manager" means the District Manager of the Ottawa District Office of the Ministry;

"Ministry" means the ministry of the government of Ontario responsible for the Environmental Protection Act and the Ontario Water Resources Act and includes all officials, employees or other persons acting on its behalf;

"Owner" means Riotrin Properties (Hazeldean) Inc. and includes its successors and assignees;

"Previous Works" means those portions of the sewage Works previously approved under an Approval;

"Works" means the sewage works described in the Owner's application(s) and this Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the Conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.

(3) Where there is a conflict between a provision of any submitted document referred to in this Approval and the Conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such Condition to other circumstances and the remainder of this Approval shall not be affected thereby.

(6) The issuance of, and compliance with the Conditions of this Approval does not:

(a) relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage Works;
or

(b) limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

This Approval will cease to apply to those parts of the Works which have not been constructed within

five (5) years of the date of this Approval.

3. CHANGE OF OWNER

The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of Owner;

(b) change of address of the Owner;

(c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; and

(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

4. OPERATION AND MAINTENANCE

(1) The Owner shall ensure that the design minimum liquid retention volume(s) is maintained at all times.

(2) The Owner shall inspect the Works at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.

(3) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the Owner's offices for inspection by the Ministry. The logbook shall include the following:

(a) the name of the Works; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. RECORD KEEPING

The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Approval.

6. MONITORING PROGRAM

(1) The Owner shall implement the monitoring program contained in AECOM Memo, dated October

15, 2010, for a minimum of two years and shall continue to be implemented until such time written notice is provided by the District Manager.

(2) The Owner shall submit an annual stormwater monitoring report to the District Manager by March 31 of each calendar year. The annual reports shall cover the monitoring period for the previous calendar year.

(3) The Owner shall provide a copy of the annual monitoring reports and its associated data to the City of Ottawa, so that the City can review it and include those results in the City's Annual Overall Monitoring Report in accordance with the Implementation Plan for the Kanata West Development Area.

(4) The Owner shall include in the annual monitoring reports for the reporting period the following:

(a) an estimate of baseflow from the stormwater management (SWM) facility;

(b) an estimate of the percentage of build out for the contributing drainage area of the SWM facility; and

(c) a description of any consideration that may need to be implemented upon transition and/or decommissioning of the interim facility once an ultimate SWM facility is provided.

Schedule "A"

1. Application for Approval of Municipal and Private Sewage Works, submitted by Elizabeth Henderson, Development Director of Riotrin Properties (Hazeldean) Inc., dated November 10, 2009, and signed off by Guy Bourgon, P.Eng., of the City of Ottawa;
2. Trinity - Hazeldean Road, Interim Stormwater Management Facility Design Brief, 3rd Revision: October 13, 2009, prepared by Stantec Consulting;
3. Hazeldean Road, Ottawa, Site Stormwater Management Report, 4th Revision: October 13, 2009, prepared by Stantec Consulting;
4. Letter from Peter Moroz, P.Eng., of Stantec Consulting to the Ministry, dated December 7, 2009, in response to comments by the Ministry;
5. Memo dated December 23, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to the Ministry with additional supporting information regarding the sanitary sewage system capacity and timelines for infrastructure upgrades;
6. City of Ottawa and Kanata West Owners Group (KWOG) Response to the Minister's Order by letter dated August 24, 2009;
7. Implementation Plan Kanata West Development Area, City of Ottawa, October 2009;
8. Application for Approval of Municipal and Private Sewage Works, submitted by Elizabeth Henderson, Development Director of Riotrin Properties (Hazeldean) Inc., dated April 14, 2010, and signed off by Guy Bourgon, P.Eng., of the City of Ottawa on June 7, 2010;
9. Hazeldean Interim SWM Facility - Monitoring Program, prepared by AECOM, dated October 15, 2010;
10. Application for Environmental Compliance Approval, submitted by Michael Foley, Associate Vice President of Riotrin Properties (Hazeldean) Inc., dated December 11, 2012, and signed off by Jacek Taracha, Senior Approvals Engineer, of the City of Ottawa on February 19, 2013;
11. Trinity Hazeldean Road - Proposed Expansion of Retail Building C1 and Pond Inlet Relocation - Addendum #2 Revision 1, prepared by Stantec Consulting, dated January 8, 2013;
12. Engineering Drawings SD-C, SSP-3, GP-3, and DS-1, prepared by Stantec Consulting, dated January 8, 2013; and Pipe Date Forms and Storm Sewer Design Sheet; and
13. E-mails from Peter Moroz, P.Eng., of Stantec Consulting to the Ministry, dated April 24, 2013 at 1017 am, dated April 24, 2013 at 11:51 am and May 8, 2013.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This Condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that subsequent Owner of the Works is made aware of the Approval and continues to operate the Works in compliance with it.
4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected.
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.
6. Condition 6 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the Carp River watershed objectives specified in the City of Ottawa's response to the Minister's Order of July 21, 2008, and its Implementation Plan - Kanata West Development Area Report, and that the Works do not cause any impairment to the receiving watercourse.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
7506-89HQRE issued on March 31, 2011**

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 10th day of May, 2013



Edgardo Tovilla
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

DC/
c: District Manager, MOE Ottawa
Peter Moroz, P. Eng., Stantec Consulting Limited

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 1962-7ZNQYA
Issue Date: June 25, 2010

City of Ottawa
100 Constellation Crescent
Ottawa, Ontario
K2G 6J8

Site Location: Hazeldean Road at Hazeldean Creek
Hazeldean Road widening - Phase 1
Lot 28, Concession 12
City of Ottawa

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:
stormwater management works in the City of Ottawa;

- **Culvert Replacement** at Hazeldean Road, approximately 4.5mx1.8m, 49.2m in length, 0.19% slope, complete with wing walls, rip rap and appurtenances;
- **Culvert Replacement** at future North-South Arterial Road approximately 4.5mx1.8m, 57.5m in length, 0.14% slope, complete with wing walls, rip rap, channel section between the two culverts, and appurtenances;

all in accordance with the following documents;

1. Application for Approval of Municipal and Private Sewage Works dated December 21, 2009 and received on December 23, 2009, including final plans and specifications prepared by IBI Group.
2. Additional information, other attachments and submitted plans with the application form, including a Design Brief entitled "Hazeldean Creek Improvements, Hazeldean Road Widening" revised May 2010 prepared by IBI Group for City of Ottawa.
3. Letter dated December 10, 2009 from John Price, P. Eng., MVCA addressed to Rikke Brown, P. Eng. IBI Group
4. Letter dated December 18, 2009 from City of Ottawa.
5. Letter dated December 16, 2009 from Don Moss, P. Eng. of Greenland International Consulting Ltd, addressed to Don Herweyer of City of Ottawa
6. Email dated January 14, 2010 and attachments, from Rikke Brown, P. Eng. of IBI Group addressed to Ciesla Malgosia of Ministry of the Environment.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Certificate " means this entire Certificate of Approval document, issued in accordance with Section 53 of the *Ontario Water Resources Act* , and includes any schedules;
- (2) "Owner " means City of Ottawa, and includes its successors and assignees; and
- (3) "Works " means the sewage works described in the Owner 's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Certificate, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Certificate.

(2) Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this Certificate will cease to apply to those parts of the Works which have not been constructed within **five (5) years** of the date of this Certificate.

3. CHANGE OF OWNER

The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:

- (a) change of Owner;
- (b) change of address of the Owner;
- (c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be

included in the notification to the District Manager; and
(d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

4. OPERATION AND MAINTENANCE.

(1) The Owner shall inspect the Works at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation in the waterways.

(2) The Owner shall take adequate measure to provide for effective and long term sediment and erosion control measures to protect aquatic systems during construction and after construction is over to minimise any impact to water bodies and the wetland natural channel. The Owner shall undertake photography and install erosion pins at strategic locations to determine and keep record of bank erosion and suggest recommendation for any protection measures required, to the District Engineer.

(3) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook ready at all the times for inspection by the Ministry. A weekly visit and inspection by a qualified fisheries professional shall be undertaken during in-water construction works and after completion of construction to such a time that the work areas are stabilized, plantations have grown in and fish habitat is restored. The logbook shall include the following:

- (a) the name of the Works; and
- (b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed, estimate of bank erosion showing photograph and pin position; and fish habitat displaced and or restored.

5. RECORD KEEPING

The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Certificate.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment..
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and

continue to operate the works in compliance with it.

4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected .
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works on a continual basis.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
MSG 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 25th day of June, 2010



Jennifer Barolet, P.Eng.

Director

Section 53, *Ontario Water Resources Act*

KH/

c: District Manager, MOE Ottawa District.
Peter Spal, P.Eng., IBI Group.



CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 2869-7XMQ68
Issue Date: January 4, 2010

City of Ottawa
100 Constellation Cres
Ottawa, Ontario
K2G 6J8

Site Location: Hazeldean Road Widening
Between Poole Creek and Hazeldean Creek
Lot 28, Concession 12
City of Ottawa, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

the establishment of stormwater management *Works* for the collection, transmission, treatment and disposal of stormwater runoff from a catchment area of 3.51 hectares plus 3.84 hectares of external area, to provide Normal water quality protection and to attenuate post-development peak flows to pre-development levels, discharging to the Hazeldean Creek and draining to the Carp River, for all storm events up to and including the 100 year return storm, consisting of the following:

Stormwater Management Minor System

an interim stormwater management facility to service the widening of Hazeldean Road between Poole Creek to Hazeldean Creek, collecting stormwater runoff through Outlet 1 (SWM Report, IBI Group 2009) for quality and quantity control. The interim SWM facility is located on the north side of Hazeldean Road adjacent to City lands for the North-South Arterial Roadway. This interim facility will be in use until the P5 stormwater facility and the storm trunk sewer are constructed, at which time the interim facility will be decommissioned. The SWM facility consist of:

- a wetland having a design minimum liquid retention volumen of 1,547 m³ (water level of 99.50 m @ 100 year level) with a controlled discharge flow rate of 0.78 m³/sec. This volume is in addition to the permanent storage provided of 432 m³. The wetland design provides for 432 m³ of permanent storage (permanent water depth of 0.30 m), with a bottom elevation of 89.35 m;

- a storm concrete pipe inlet of 1050 mm diameter with an invert of 98.68 m, with a headwall tied onto the

facility with 300-400 mm diameter rip rap at 600 mm depth;

- a sediment forebay with a submerged permeable rock check dam to separate the sediment forebay from the main facility and to facilitate clean-out;
- a 0.105 m diameter outlet orifice with an invert of 98.65 placed underneath the weir, designed for a discharge rate of 5.6 L/s;
- a 0.92 m wide rectangular weir with an opening height of 650 mm, with a crest elevation at 98.90 m and a facility crest elevation of 99.55m;
- a 7.0 m long outlet channel consisting of a 1.0 m bottom width trapezoidal channel with 3:1 side slopes, and an invert elevation at the outlet of 98.50 m, discharging to Hazeldean Creek at an invert of approximately 98.40 m. The outlet structure was designed to account for the backwater effect from the Hazeldean Creek up to the 100 year storm event;
- a 5 m wide granular temporary access road to provide access from the north-south arterial road to the interim facility and its outlet structure.
- including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works* ;

all in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Suraj Harish, P.Eng. of the City of Ottawa dated October 21, 2009;
2. Stormwater Management Report - Hazeldean Road Widening, Poole Creek to Terry Fox Drive, dated Revised September 2009, prepared by IBI Group.
3. Letter from Suraj Harish, P.Eng., of the City of Ottawa to Edgardo Tovilla, P.Eng., dated November 27, 2009, in response to information requested by MOE.
4. Memo dated December 23, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to Jason Shaefer, P.Eng., of the MOE with additional supporting information re: the sanitary sewage system capacity and timelines for infrastructure upgrades.
5. City of Ottawa and KWOG Response to the Minister's Order by letter dated August 24, 2009.
6. Implementation Plan Kanata West Development Area, City of Ottawa, October 2009.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"Certificate " means this entire certificate of approval document, issued in accordance with Section 53 of

the Ontario Water Resources Act, and includes any schedules;

"*Director*" means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

"*District Manager*" means the District Manager of the Ottawa District Office of the *Ministry* ;

"*Ministry*" means the Ontario Ministry of the Environment;

"*Owner*" means the City of Ottawa and includes its successors and assignees;

"*Works*" means the sewage works described in the *Owner*'s application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate* .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .

(2) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate* , the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate* .

3. CHANGE OF OWNER

The *Owner* shall notify the *District Manager* and the *Director* , in writing, of any of the following changes within thirty (30) days of the change occurring:

- (a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* .

4. OPERATION AND MAINTENANCE.

(1) The *Owner* shall ensure that the design minimum liquid retention volume(s) is maintained at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive buildup of sediments and/or vegetation.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at *Owner's* offices for inspection by the *Ministry* . The logbook shall include the following:

(a) the name of the *Works* ; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. RECORD KEEPING

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Certificate* .

6. MONITORING PROGRAM

(1) The *Owner* shall, by January 1, 2011, submit for the *District Manager's* approval, a final stormwater monitoring program to be developed in consultation with the *Municipality* and the *MOE*.

(2) Notwithstanding subsection (1), the proposed *Works* shall not commence operation until the *Owner* obtains in writing the *District Manager's* approval for the proposed monitoring program.

7. SPECIAL CONDITION FOR INFRASTRUCTURE CAPACITY

The *Owner* shall ensure that the timelines for all sewage works upgrades for infrastructure capacity as provided in the associated supporting documentation are adhered to and the Ministry is notified of implementation milestones and appropriate applications for approval are submitted as necessary.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected .
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works* .
6. Condition 5 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the Carp River watershed objectives specified in the City of Ottawa's response to the Minister's Order of July 21, 2008, and its Implementation Plan - Kanata West Development Area report, and that the *Works* does not cause any impairment to the receiving watercourse.
7. Condition 7 is included to ensure that the sewage works associated with the Hazeldean Road widening project and the timelines for all sewage works upgrades for infrastructure referenced in the supporting documentation to this Certificate are adhered to so as to reduce risks of infrastructure overflows.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act , R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 4th day of January, 2010



Mansoor Mahmood, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

ET/

c: District Manager, MOE Ottawa District Office
Peter Spal, P. Eng., IBI Group
Guy Bourgon, P.Eng., City of Ottawa

**CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 0316-7QER2U
Issue Date: April 8, 2009**

Mattamy (Fairwinds North) Limited
123 Huntmar Drive, Ottawa,
Ontario, K2S 1B9

Site Location: Fairwinds Subdivision (Maple Grove)
Lot 27 and 28, Concession 12
City of Ottawa.

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

establishment of Stormwater Management Works for temporary diversion of existing ditch flow located on the north side of Maple Grove Road for the construction of 2250mm diameter trunk line and stormsewers, sanitary sewers and watermains to service approximately 18.6ha. catchment area for a period not exceeding 4 weeks, comprising of the following:

- 1. Temporary Rock Check Dam:** provision of a temporary rock check dam on the existing ditch, located west of junction of Montserrat Street and Maple Grove Road,
- 2. Lift Station:** provision of a portable pump of capacity 66L/s, at a TDH of 6.1m, to be located in an existing Storm sewer Manhole MH #15, east of Phase 1 Block 65, approximately 8m north of Maple Grove Road and pump collected stormwater via a 102mm diameter forcemain, approximately 30m long into the existing storm sewer Manhole on Montserrat Street to discharge into the existing 1800mm diameter stormsewer on Leveche Way to finally discharge into the existing 2250mm stormsewer on the Maple Grove Road,
- 3. Temporary Diversion Ditch Overflow:** provision of a lined ditch from the existing Montserrat Culvert along the front of the lots on the north side of the Maple Grove Road, to discharge stormwater overflow to the existing trunk storm sewer,

including appurtenances, flood control, spill control and erosion/sedimentation control measures to minimize effects on external lands and to the existing channels, ditches and the Creek;

all in accordance with the **Application for Approval of Municipal and Private Sewage Works, Stormwater Management Facility**, dated December 30, 2008, recieved on February 26,

2009, design brief, and addendum documents prepared and submitted by Jennifer Ailey, P. Eng., David Schaeffer Engineering Ltd., Consulting Engineers.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"Certificate" means this entire certificate of approval document, issued in accordance with Section 53 of the Ontario Water Resources Act, and includes any schedules;

"Director" means any Ministry employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

"District Manager" means the District Manager of the Ottawa District Office of the Ministry;

"Ministry" means the Ontario Ministry of the Environment;

"Owner" means Mattamy (Fairwinds North) Limited and includes its successors and assignees;

"Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Certificate, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Certificate.

(2) Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this Certificate will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Certificate.

3. CHANGE OF OWNER

The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

- (a) change of Owner;
- (b) change of address of the Owner;
- (c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; and
- (d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

4. OPERATION AND MAINTENANCE.

(1) The Owner shall inspect the Works at least once a day and, if necessary, clean and maintain the Works to prevent flooding, bank erosion and excessive build-up of grit, sediments and/or vegetation in the channels, creek and on the waterways.

(3) The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook ready at all the times for inspection by the Ministry. The logbook shall include the following:

- (a) the name of the Works; and
- (b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed and any flooding /spill occurred.

5. RECORD KEEPING

The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Certificate.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.

4. Condition 4 is included to require that the Works be properly operated and maintained such that the environment is protected .
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate effect of the operation and maintenance of the Works.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act , R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 8th day of April, 2009



Mansoor Mahmood, P.Eng.

Director
Section 53, *Ontario Water Resources Act*

MN/

c: District Manager, MOE Ottawa
Clerk, the City of Ottawa.
Jennifer Ailey, P. Eng., David Schaeffer Engineering Ltd.



Ontario

Ministry of the Environment
Ministère de l'Environnement

AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 4175-6XAJR8
Issue Date: January 17, 2007

Mattamy (Poole Creek) Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision, Phase 1
Lot 27 & 28, Concession 12
City of Ottawa, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

a sanitary sewage pumping station, a temporary forcemain (200 mm diameter) and twin permanent forcemains (200 and 300 mm in diameter, respectively), to be constructed to service Fairwinds Subdivision - Phase 1, in the City of Ottawa comprising the following:

- one (1) temporary **sanitary sewage pumping station** located north easterly of the intersection of Huntmar Road and Maple Grove Road, designed for a peak flow rate of 54 L/s, consisting of a 3.6 m diameter wet well equipped with two (2) submersible pumps, one for duty and one for standby, each pump has a rated capacity of 54 L/s at a total dynamic head of 57.2 m, complete with electrical and electronic control systems, an ultrasonic level transmitter with float switches to communicate overflow conditions, discharge piping, ventilation system, valves, by-pass piping, overflow pipe discharging to a proposed temporary stormwater management wet pond under Ministry of Environment Reference No. 7203-6VMTJN, a proposed 200 kW standby generator set, and all other appurtenances necessary to have a complete and operable pumping station, discharging to the proposed temporary 200 mm diameter forcemain;
- a temporary **sanitary forcemain**, (200 mm in diameter) along Block 197, Block 170, Block 175 and Harmattan Avenue from the pumping station to the permanent twin 200 and 300 mm diameter forcemain at the intersection of Huntmar Road and Harmattan Avenue;
- **twin sanitary forcemains**, (200 and 300 mm in diameter, respectively) on Maple Grove Road, Huntmar Road and Iber Road discharging to an existing sanitary manhole (Stittsville Collector) at the intersection of Iber Road and Abbot Street East;

all in accordance with the application dated July 14, 2006 and received on September 14, 2006, and all supporting documentation and information including a design brief, final plans and specifications prepared by Stantec Consulting Ltd.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

1. "Act " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;
2. "Certificate " means this entire certificate of approval document, issued in accordance with Section 53 of the Act , and includes any schedules;
3. "Director " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Act ;
4. "District Manager " means the District Manager of the Ottawa District Office of the Ministry;
5. "Ministry " means the Ontario Ministry of the Environment;
6. "Owner " means Mattamy (Poole Creek) Limited, and includes its successors and assignees;
7. "Regional Director " means the Regional Director of the Eastern Region of the Ministry;
8. "Substantial Completion " has the same meaning as "substantial performance " in the Construction Lien Act; and
9. "Works " means the sewage works described in the Owner 's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

- 1.1 The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .
- 1.3 Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate* , the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

- 1.4 Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Certificate* shall not be affected thereby.

2. EXPIRY OF APPROVAL

- 2.1 This Certificate of Approval expires on December 31, 2009.

3. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

- 3.1 Upon the *Substantial Completion* of the *Works*, the Owner shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with this *Certificate*, and upon request, shall make the written statement available for inspection by Ministry personnel.
- 3.2 Within one year of the *Substantial Completion* of the *Works*, a set of as-built drawings showing the works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the *Works* for the operational life of the *Works*.

4. OPERATION AND MAINTENANCE

- 4.1 The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works*.
- 4.2 The *Owner* shall prepare an operations manual within six (6) months of *Substantial Completion* of the *Works*, that includes, but not necessarily limited to, the following information:
 - (a) operating procedures for routine operation of the *Works* ;
 - (b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;
 - (c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;
 - (d) procedures for the inspection and calibration of monitoring equipment;
 - (e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures

for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager* ; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

4.3 The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works* . The *Owner* submit a copy of the operations manual to the *District Manager* within six (6) months of *Substantial Completion* of the *Works*.

5. REPORTING

5.1 The *Owner* shall prepare and submit a report that will include the monthly average pump flow rates to the *District Manager* by October 31, 2008 and October 31, 2009, respectively. The October 31, 2008 report shall cover the period from the start-up of the *Works* until September 30, 2008. The October 31, 2009 report shall cover the period from October 1, 2008 to September 30, 2009.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the *Owners* their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .
2. Condition 2.1 is included to confirm that the approved *Works* are of a temporary nature
3. Condition 3 is included to ensure that the *Works* are constructed in accordance with the approval and that record drawings of the *Works* "as constructed" are maintained for future references.
4. Condition 4 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the *Owner* and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works* . Its compilation and use should assist the *Owner* in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for *Ministry* staff when reviewing the *Owner*' s operation of the *Works* .
5. Condition 5 is included to ensure the ongoing monitoring of the monthly and annual average pump flow rates are submitted to the *District Manager* to ensure the temporary *Works* have sufficient capacity to meet demands.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 3644-6VXHRN issued on December 14, 2006

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

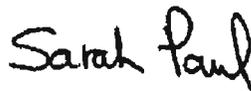
AND

The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 17th day of January, 2007



Sarah Paul, P.Eng.
Director
Section 53, Ontario Water Resources Act

ET/

c: District Manager, MOE Ottawa District Office

Gregory Chochlinski / Tim Wilkie, Stantec Consulting Ltd.
Pierre G. Page, City Clerk, City of Ottawa
Rosemarie LeClair, Manager, Public Works and Services



**CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 9553-8J8JHZ
Issue Date: June 30, 2011**

Mattamy (Fairwinds) Limited
123 Huntmar Drive
Kanata, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision-Phase 5A
Part of Lots 27 and 28, Concession 12
City of Ottawa

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

sanitary sewers to be constructed to serve the Fairwinds Subdivision-Phase 5A, in the City of Ottawa, located along Coriolis Court (from west end of Coriolis Court to Huntmar Drive), Gallantry Way (from Huntmar Drive to Khamsin Street), Khamsin Street (from approximately 35 m south of Brigatine Avenue to Gallantry Way) and Brigatine Avenue (from Huntmar Drive to Khamsin Street), discharging to existing 750 mm diameter sanitary sewers located along Huntmar Drive; and

storm sewers to be constructed to serve the Fairwinds Subdivision-Phases 5A, in the City of Ottawa, located along Coriolis Court (from west end of Coriolis Court to Huntmar Drive), Gallantry Way (from Huntmar Drive to Khamsin Street) and Brigatine Avenue (from Huntmar Drive to Khamsin Street), discharging to the existing Fairwinds Temporary SWM Pond (Phase 8);

all in accordance with the application dated May 25, 2011 and received on May 31, 2011, including final plans and specifications prepared by David Schaeffer Engineering Ltd. (DSEL).

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

1. "Certificate" means this entire certificate of approval document, issued in accordance with Section 53 of the Ontario Water Resources Act, and includes any schedules;
2. "Director" means any Ministry employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

3. "District Manager" means the District Manager of the Ottawa District Office of the Ministry;
4. "Ministry" means the Ontario Ministry of the Environment;
5. "Owner" means Mattamy (Fairwinds) Limited, and includes its successors and assignees;
6. "Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITIONS

- 1.1 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Certificate and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Certificate, the application for approval of the Works and the submitted supporting documents and plans and specifications as listed in this Certificate.
- 1.3 In the event there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.
- 1.4 In the event there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected thereby.

2. EXPIRY OF APPROVAL

- 2.1 The approval issued by this Certificate will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Certificate.

3. CHANGE OF OWNER

The Owner shall notify the District Manager and the Director, in writing, of any of the following changes

within thirty (30) days of the change occurring:

- (a) change of Owner;
- (b) change of address of the Owner;
- (c) change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; and
- (d) change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Certificate the existence of this Certificate.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the Works are made aware of the Certificate and continue to operate the Works in compliance with it.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1B5

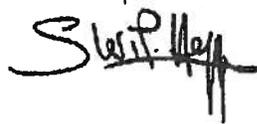
AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 30th day of June, 2011



Sherif Hegazy, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

KC/

c: District Manager, MOE Ottawa District Office
Jennifer Ailey, David Schaeffer Engineering Ltd. (DSEL)
Guy Bourgon, P.Eng., Program Manager, City of Ottawa



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
AIR
NUMBER 5340-764Q2N
Issue Date: August 16, 2007

Mattamy (Poole Creek) Limited
123 Huntmar Dr
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Pumping Station
Lot 27 & 28, Concession 12
City of Ottawa

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

- one (1) standby diesel generator set, having a rating of 239 kilowatts, to provide power for the pumping station during emergency situations

all in accordance with the Application for Approval (Air) dated January 5, 2007 and signed by Frank D. Cairo, Vice President, Land Development, Mattamy (Poole Creek) Limited, and all supporting information associated with the application including additional information provided by Matt K. Lei, P.Eng. Stantec Consulting Ltd., dated August 14, 2007

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Act" means the *Environmental Protection Act*;
- (2) "Certificate" means this Certificate of Approval issued in accordance with Section 9 of the Act;
- (3) "Equipment" means the diesel generator set described in the Owner's application, this Certificate and in the supporting documentation submitted with the application, to the extent approved by this Certificate;
- (4) "Manual" means a document or a set of documents that provide written instructions to staff of the Owner;
- (5) "Ministry" means the Ontario Ministry of the Environment;
- (6) "Owner" means Mattamy (Poole Creek) Limited, and includes its successors and assignees; and

- (7) "Publication NPC-205" means Ministry Publication NPC-205, Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban), October, 1995.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

GENERAL

1. Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Equipment in accordance with the description given in this Certificate, application for approval of the Equipment and the submitted supporting documents and plans and specifications as listed in this Certificate.
2. Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate, the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.
3. The Owner shall ensure that the Equipment is only for the temporary use at the pumping station.
4. The Owner shall ensure that current minimum separation distance of 77 meters between the Equipment, and the closest residence is maintained at all times, including during operation and testing.

PERFORMANCE

5. The Owner shall ensure that the noise emissions from the Equipment comply with the limits set out in Publication NPC-205.

OPERATION AND MAINTENANCE

6. The Owner shall ensure that the Equipment is properly operated and maintained at all times. The Owner shall:
 - (1) prepare, not later than three (3) months after the date of this Certificate or the date of commissioning of the Equipment, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:
 - (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
 - (b) emergency procedures;
 - (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment;

- (d) all appropriate measures to minimize noise and odorous emissions from all potential sources;
- (2) implement the recommendations of the Manual; and
- (3) retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the Equipment, and make these records available for review by staff of the Ministry upon request.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition Nos. 1, 2, 3, and 4 are imposed to ensure that the Equipment is built and operated in the manner in which it was described for review and upon which approval was granted. These conditions are also included to emphasize the precedence of Conditions in the Certificate and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition No. 5 is included to provide the minimum performance requirement considered necessary to prevent an adverse effect resulting from the operation of the Generator Set.
3. Condition No. 6 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, the regulations and this Certificate. In addition the Owner is required to keep records and provide information to staff of the Ministry so that compliance with the Act, the regulations and this Certificate can be verified.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 16th day of August, 2007



Mansoor Mahmood, P.Eng.
Director,
Section 9, *Environmental Protection Act*

CV/

c: District Manager, MOE Ottawa
Matt Lei, Stantec Consulting Inc.



Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 3644-6VXHRN
Issue Date: December 14, 2006

1591246 Ontario Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision, Phase 1
Lot 27 & 28, Concession 12
City of Ottawa, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

a sanitary sewage pumping station, a temporary forcemain (200 mm diameter) and twin permanent forcemains (200 and 300 mm in diameter, respectively), to be constructed to service Fairwinds Subdivision - Phase 1, in the City of Ottawa comprising the following:

- one (1) temporary **sanitary sewage pumping station** located north easterly of the intersection of Huntmar Road and Maple Grove Road, designed for a peak flow rate of 54 L/s, consisting of a 3.6 m diameter wet well equipped with two (2) submersible pumps, one for duty and one for standby, each pump has a rated capacity of 54 L/s at a total dynamic head of 57.2 m, complete with electrical and electronic control systems, an ultrasonic level transmitter with float switches to communicate overflow conditions, discharge piping, ventilation system, valves, by-pass piping, overflow pipe discharging to a proposed temporary stormwater management wet pond under Ministry of Environment Reference No. 7203-6VMTJN, a proposed 200 kW standby generator set, and all other appurtenances necessary to have a complete and operable pumping station, discharging to the proposed temporary 200 mm diameter forcemain;
- a temporary **sanitary forcemain**, (200 mm in diameter) along Block 197, Block 170, Block 175 and Harmattan Avenue from the pumping station to the permanent twin 200 and 300 mm diameter forcemain at the intersection of Huntmar Road and Maple Grove Road;
- **twin sanitary forcemains**, (200 and 300 mm in diameter, respectively) on Huntmar Road and Iber Road discharging to an existing sanitary manhole (Stittsville Collector) at the intersection of Iber Road and Abbot Street East;

all in accordance with the application dated July 14, 2006 and received on September 14, 2006, and all supporting documentation and information including a design brief, final plans and

specifications prepared by Stantec Consulting Ltd.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

1. "Act " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;
2. "Certificate " means this entire certificate of approval document, issued in accordance with Section 53 of the Act , and includes any schedules;
3. "Director " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Act ;
4. "District Manager " means the District Manager of the Ottawa District Office of the Ministry;
5. "Ministry " means the Ontario Ministry of the Environment;
6. "Owner " means 1591246 Ontario Limited, and includes its successors and assignees;
7. "Regional Director " means the Regional Director of the Eastern Region of the Ministry;
8. "Substantial Completion " has the same meaning as "substantial performance " in the Construction Lien Act; and
9. "Works " means the sewage works described in the Owner 's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

- 1.1 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Certificate and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these Conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Certificate , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this Certificate .
- 1.3 Where there is a conflict between a provision of any submitted document referred to in this Certificate and the Conditions of this Certificate , the Conditions in this Certificate shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

- 1.4 Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Certificate* shall not be affected thereby.
2. **EXPIRY OF APPROVAL**
 - 2.1 This Certificate of Approval expires on December 31, 2009.
3. **UPON THE SUBSTANTIAL COMPLETION OF THE WORKS**
 - 3.1 Upon the *Substantial Completion* of the *Works*, the Owner shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with this *Certificate*, and upon request, shall make the written statement available for inspection by Ministry personnel.
 - 3.2 Within one year of the *Substantial Completion* of the *Works*, a set of as-built drawings showing the works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the *Works* for the operational life of the *Works*.
4. **OPERATION AND MAINTENANCE**
 - 4.1 The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works*.
 - 4.2 The *Owner* shall prepare an operations manual within six (6) months of *Substantial Completion* of the *Works*, that includes, but not necessarily limited to, the following information:
 - (a) operating procedures for routine operation of the *Works* ;
 - (b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;
 - (c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;
 - (d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager* ; and

(f) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

4.3 The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works* . The *Owner* submit a copy of the operations manual to the *District Manager* within six (6) months of *Substantial Completion* of the *Works*.

5. REPORTING

5.1 The *Owner* shall prepare and submit a report that will include the monthly average pump flow rates to the *District Manager* by October 31, 2008 and October 31, 2009, respectively. The October 31, 2008 report shall cover the period from the start-up of the *Works* until September 30, 2008. The October 31, 2009 report shall cover the period from October 1, 2008 to September 30, 2009.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the *Owners* their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .
2. Condition 2.1 is included to confirm that the approved *Works* are of a temporary nature
3. Condition 3 is included to ensure that the *Works* are constructed in accordance with the approval and that record drawings of the *Works* "as constructed" are maintained for future references.
4. Condition 4 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the *Owner* and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works* . Its compilation and use should assist the *Owner* in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for *Ministry* staff when reviewing the *Owner*' s operation of the *Works* .
5. Condition 5 is included to ensure the ongoing monitoring of the monthly and annual average pump flow rates are submitted to the *District Manager* to ensure the temporary *Works* have sufficient capacity to meet demands.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

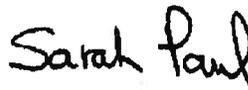
AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 14th day of December, 2006



Sarah Paul, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

RS/

c: District Manager, MOE Ottawa District Office
Gregory Chochlinski / Tim Wilkie, Stantec Consulting Ltd.
Pierre G. Page, City Clerk, City of Ottawa
Rosemarie LeClair, Manager, Public Works and Services



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 5096-6VQTT6
Issue Date: November 22, 2006

Mattamy (Poole Creek) Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision (Maple Grove)
Lot 27 & 28, Concession 12
Ottawa City, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

sanitary and storm sewer to be constructed in the City of Ottawa, on Maple Grove Road (Local), Maple Grove Road (Trunk), and storm sewer only on Maple Grove Culvert and Leveche Drive Culvert, all in accordance with the application from Mattamy (Poole Creek) Limited, dated November 8, 2006, including final plans and specifications prepared by Stantec Consulting Ltd.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700

The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment

P.O. Box 2382
Toronto, Ontario
M4P 1E4

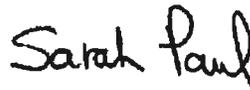
AND

2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 22nd day of November, 2006



Sarah Paul, P.Eng.
Director
Section 53, Ontario Water Resources Act

LW/

c: District Manager, MOE Ottawa
Pierre G. Page, Clerk, City of Ottawa
Anthony Chown, Stantec Consulting Ltd.



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL DRINKING WATER SYSTEMS
NUMBER 3822-6VQTJB
Issue Date: November 22, 2008

Mattamy (Poole Creek) Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision (Maple Grove)
Lot 27 & 28, Concession 12
Ottawa City, Ontario

Pursuant to the Safe Drinking Water Act, 2002, S.O. 2002, c. 32, and the regulations made thereunder and subject to the limitations thereof, this approval is issued under Part V of the Safe Drinking Water Act, 2002, S.O. 2002, c. 32 to:

construct watermain in the City of Ottawa, on Maple Grove Road, all in accordance with the application from Mattamy (Poole Creek) Limited, dated November 8, 2006, including final plans and specifications prepared by Stantec Consulting Ltd.

All or part of this decision may be reviewable in accordance with the provisions of Part X of the SDWA. In accordance with Section 129(1) of the Safe Drinking Water Act, Chapter 32 Statutes of Ontario, 2002, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. Section 129(2) sets out a procedure upon which the 15 days may be extended by the Tribunal. Section 129(3) of the Safe Drinking Water Act, Chapter 32 Statutes of Ontario, 2002, provides that the Notice requiring the hearing shall state:

1. The aspect of the decision, including the portion of the permit, licence, approval, order or notice of administrative penalty in respect of which the hearing is required; and
2. The grounds for review to be relied on by the person at the hearing.

Except with leave of the Tribunal, a person requiring a hearing in relation to a reviewable decision is not entitled to,

- (a) a review of an aspect of the decision other than that stated in the notice requiring the hearing; or
- (b) a review of the decision other than on the grounds stated in the notice

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;

8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

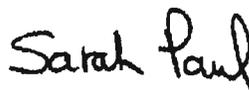
AND

The Director
Part V, *Safe Drinking Water Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted water works are approved under Part V of the Safe Drinking Water Act

DATED AT TORONTO this 22nd day of November, 2006



Sarah Paul, P.Eng.
Director
Part V of the *Safe Drinking Water Act*,
2002

LW/

c: District Manager, MOE Ottawa
Pierre G. Page, Clerk, City of Ottawa
Anthony Chown, Stantec Consulting Ltd.

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 9462-96GR5W

Issue Date: May 17, 2013

Mattamy (Fairwinds) Limited
50 Hines Rd, No. 100
Ottawa, Ontario, K2K 2M5

Site Location: Fairwinds Phase 5 and 5A, Storm Water Management (SWM) Pond # 5
South of Poole Creek and North of Hazeldean Road
Lot 27 & 28, Concession 12, Ottawa City.

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

outlet control retrofit to establish a stormwater management *Works* Pond # 5 for the collection, transmission, treatment and disposal of stormwater run-off from a catchment area of approximately 24.16 hectares, to provide enhanced water quality protection (80% S.S. removal) and to attenuate post-development peak flows to pre-development levels, discharging to Poole Creek, which drains to the Carp River, for all storm events up to and including the 100 year return storm, consisting of the following:

Stormwater Management System (Pond #5):

- a stormwater management system to service Fairwinds Phases 5A and 5B, located on Block 96, south of Poole Creek and north of Hazeldean Road, complete with a 1650mm diameter inlet pipe into a forebay, to have a peak design liquid retention volume of 15,214m³ with a maximum allowable discharge flow rate of 0.084m³/sec.

The SWM system serves the following site's and external areas:

- 4.36ha - Phase 5A
- 1.46 ha - Phase 8 (which is the location of the interim SWM pond)
- 2.34 ha - External run-off from a future residential area, east of the site known as Phase 5B
- 14.85 ha - External run-off from an area south of the site
- 1.15 ha - External run-off from Huntmar Drive, south of the site

- the 1650 mm diameter storm sewer inlet structure and a head wall is located at the west end of the pond, with an invert at the inlet of approximately 95.774m elevation, 0.024m over the permanent pool level of 95.75m.

- a pond outlet structure consisting of a retrofitted quality controlling circular orifice of 0.11m diameter with an invert at 95.75 m and a quantity controlling rectangular orifice of 0.10m wide by 0.10m high with an invert at

95.98 m, conveying flows to Poole Creek via a 750mm concrete pipe with a 1% slope and a capacity of 1.11m³/sec.

- an emergency overflow spillway 6.0 m wide at an invert elevation of 98.23m.

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works* ; all in accordance with Application for Approval of Municipal and Private Sewage Works , dated November 5, 2012, for the Proposed Changes to Interim Pond 5 Outlet Controls; prepared by DSEL Ltd. along with Design Brief and Analysis by JFSA Inc. including the addendum documentation and drawings as per the Ministry's request.

For the purpose of this environmental compliance approval, the following definitions apply:

"*Approval*" means this entire document and any schedules attached to it, and the application;

"*Director*" means a person appointed by the Minister pursuant to section 5 of the *EPA* for the purposes of Part II.1 of the *EPA*;

"*District Manager*" means the District Manager of the Ottawa District Office;

"*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;

"*Ministry*" means the ministry of the government of Ontario responsible for the *EPA* and *OWRA* and includes all officials, employees or other persons acting on its behalf;

"*Owner*" means Mattamy (Fairwinds) Limited and its successors and assignees;

"*OWRA*" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended; and

"*Water Supervisor*" means the Water Supervisor for the Kingston and Ottawa-Cornwall offices of the Ministry;

"*Works*" means the sewage works described in the *Owner* 's application, and this *Approval*.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Approval* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these conditions, the *Owner* shall design, build, install, operate and

maintain the *Works* in accordance with the description given in this *Approval* , and the application for approval of the *Works*.

(3) Where there is a conflict between a provision of any document in the schedule referred to in this *Approval* and the conditions of this *Approval* , the Conditions in this *Approval* shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the documents listed in the Schedule submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The Conditions of this *Approval* are severable. If any Condition of this *Approval* , or the application of any requirement of this *Approval* to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this *Approval* shall not be affected thereby.

2. EXPIRY OF APPROVAL

The approval issued by this *Approval* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Approval*.

3. CHANGE OF OWNER

1. The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner*;

(b) change of address of the *Owner*;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager*; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager*.

(2) In the event of any change in ownership of the *Works*, other than a change to a successor municipality, the *Owner* shall notify in writing the succeeding owner of the existence of this *Approval*, and a copy of such notice shall be forwarded to the *District Manager* and the *Director*.

(3) Notwithstanding any other requirements in this *Approval*, upon transfer of the ownership or assumption of the *Works* to a municipality if applicable, any reference to the *District Manager* shall be

replaced with the *Water Supervisor*.

4. OPERATION AND MAINTENANCE.

(1) The *Owner* shall ensure that the design minimum liquid retention volume(s) is maintained in the pond at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive build-up of sediments and/or vegetation.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the Corporate Office for inspection by the *Ministry*. The logbook shall include the following:

(a) the name of the *Works*; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. RECORD KEEPING

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Approval*.

6. MONITORING PROGRAM

(1) The *Owner* shall undertake the Monitoring Program dated November 25, 2011, as approved by the *District Manager* on December 06, 2011:

(2) The *Owner* shall:

(a) implement the program for a minimum of two (2) years and shall continue to implement it until such time written notice is provided by the *District Manager* ;

(b) submit an annual stormwater monitoring report to the District Manager by March 31 of each calendar year. The annual reports shall cover the monitoring period for the previous calendar year;

(c) provide a copy of the annual monitoring reports and its associated data to the City of Ottawa, so that the City can review it and include those results in the City's Annual Overall Monitoring Report in accordance with the Implementation Plan for the Kanata West Development Area; and

(d) include in the annual monitoring reports for the reporting period the following:

(i) an estimate of baseflow from the stormwater management (SWM) facility;

(ii) an estimate of the percentage of build out for the contributing drainage area of the SWM facility; and

(iii) a description of any consideration that may need to be implemented upon transition and/or decommissioning of the interim facility once an ultimate SWM facility is provided.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Approval* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment..
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved *Works* and to ensure that subsequent owners of the works are made aware of the *Approval* and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected .
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works*.
6. Condition 6 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the Carp River watershed objectives specified in the City of Ottawa's response to the Minister's Order of July 21, 2008, and its Implementation Plan - Kanata West Development Area report as amended from time to time, and that the *Works* does not cause any impairment to the receiving watercourse.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
8647-7ZPRCW issued on March 31, 2011.**

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II,1 of the Environmental Protection Act.

DATED AT TORONTO this 17th day of May, 2013



Edgardo Tovilla
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

MN/

- c: District Manager, MOE Ottawa.
"Water Supervisor", Kingston and Ottawa-Cornwall offices of the Ministry;
Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd.

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 8847-7ZPRCW
Issue Date: March 31, 2011

Mattamy (Fairwinds) Limited
123 Huntmar Dr.
Ottawa, Ontario K2S 1B9

Site Location: Fairwinds Phase 5A and Phase 8
Storm Water Management (SWM) Pond
South of Poole Creek and North of Hazeldean Road
Lot 27 & 28, Concession 12 Goulbourn Twp
Ottawa City, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

the establishment of a stormwater management *Works* for the collection, transmission, treatment and disposal of stormwater runoff from a catchment area of approximately 24.25 hectares, which includes site's and external areas, to provide Enhanced water quality protection level and to attenuate post-development peak flows to pre-development levels, discharging to Poole Creek, which drains to the Carp River, for all storm events up to and including the 100 year return storm, consisting of the following:

Stormwater Management System

- a stormwater management system to service Fairwinds Phases 5A and 8, located south of Poole Creek and north of Hazeldean Road, relying on an interim stormwater management wet pond, equipped with a forebay. The pond, having a design liquid retention volume of 5,200 m³ with a maximum allowable discharge flow rate of 0.71 m³/sec. The SWM system serves the following site's and external areas:

- 4.45 ha - Phase 5A
- 1.46 ha - Phase 8 (which is the location of the interim SWM pond)
- 2.34 ha - External runoff from a future residential area, east of the site known as Phase 5B
- 14.85 ha - External runoff from an area south of the site
- 1.15 ha - External runoff from Huntmar Drive, south of the site

- an 1650 mm storm sewer inlet structure and a headwall located at the west end of the pond, with an invert at the inlet of approximately 95.774 m elevation, 0.024 m over the permanent pool level of 95.75 m.

- a pond outlet structure consisting of : (1) a quality controlling circular orifice with a 0.14 m diameter with an invert at 95.75 m; (2) a quantity controlling rectangular orifice of 0.35 m wide by 0.15 m high with an invert at 95.98 m and (3) a 0.4 m wide sharp crested weir with an invert set at 96.80 m, conveying flows to Poole Creek via a 750 mm concrete pipe with a 1% slope and a capacity of 1.11 m³/sec.

- an emergency overflow spillway 6.0 m wide at an invert elevation of 97.833 m.

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works* ;

all in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Frank Cairo of Mattamy (Fairwinds) Ltd., dated November 10, 2009;
2. Stormwater Management Report and Pond Design Brief for Fairwinds Phases 5A and 5B, dated April 2008 and updated October 2009, prepared by JFSA Inc.
3. Design Brief for Fairwinds Phase 5A Development, dated November 13, 2009, prepared by DSEL Ltd.
4. Memo from Greenland International Consulting Re: Comments for Mattamy Fairwinds South development, dated November 9, 2009, with comments in compliance with recommendations of the Third Party Review.
5. Memo from the City of Ottawa to the MOE, dated December 23, 2009, noting restrictions of sewage infrastructure in the area.
6. Clearance letter from the Mississippi Valley Conservation dated January 12, 2010, for Phase 5A of the subdivision only.
7. Letter from DSEL Ltd., dated June 17, 2010, noting changes to the application files 0436-7YESJR, and 0920-7YESJJ, due to legal obligations resolved with a third party -North American (Goulbourn)-.
8. Letter from DSEL Ltd., dated August 5, 2010, in response to MOE letter dated July 8, 2010.
9. Email from Chris Ogilvie of the City of Ottawa to Edgardo Tovilla of the MOE, dated August 13, 2010, with support to the applications files 0436-7YESJR, and 0920-7YESJJ.
10. Email from Jennifer Ailey of DSEL to Edgardo Tovilla of the MOE, dated September 14 & 15, 2010, and March 31, 2011, with clarifications on the application and comments on the draft Certificate.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"*Certificate*" means this entire certificate of approval document, issued in accordance with Section 53 of the Ontario Water Resources Act, and includes any schedules;

"*Director*" means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Ontario Water Resources Act;

"*District Manager*" means the District Manager of the Ottawa District Office of the *Ministry*;

"*Ministry*" means the Ontario Ministry of the Environment;

"*Owner*" means Mattamy (Fairwinds) Limited and includes its successors and assignees;

"*Source Protection Plan*" means a drinking water source protection plan prepared under the Clean Water Act, 2006;

"*Works*" means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate*.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .

(2) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate* , the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate*.

3. CHANGE OF OWNER

The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* .

4. OPERATION AND MAINTENANCE.

(1) The *Owner* shall ensure that the design minimum liquid retention volume(s) is maintained at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive buildup of sediments and/or vegetation.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the *Owner's* offices for inspection by the *Ministry* . The logbook shall include the following:

(a) the name of the *Works* ; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. RECORD KEEPING

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Certificate* .

6. MONITORING PROGRAM

(1) The *Owner* shall, by **May 31, 2011**, submit for the *District Manager's* approval, a final stormwater monitoring program to be developed in consultation with the Municipality and the MOE.

(2) Upon written approval by the *District Manager* for the Monitoring Program, the *Owner* shall:

- (a) implement the program for a minimum of two (2) years and shall continue to implement it until such time written notice is provided by the *District Manager* ;
- (b) submit an annual stormwater monitoring report to the *District Manager* by March 31 of each calendar year. The annual reports shall cover the monitoring period for the previous calendar year;
- (c) provide a copy of the annual monitoring reports and its associated data to the City of Ottawa, so that the City can review it and include those results in the City's Annual Overall Monitoring Report in accordance with the Implementation Plan for the Kanata West Development Area; and
- (d) include in the annual monitoring reports for the reporting period the following:
 - (i) an estimate of baseflow from the stormwater management (SWM) facility;
 - (ii) an estimate of the percentage of build out for the contributing drainage area of the SWM facility; and
 - (iii) a description of any consideration that may need to be implemented upon transition and/or decommissioning of the interim facility once an ultimate SWM facility is provided.

(3) Notwithstanding subsection (1) , the proposed *Works* shall not commence operation until the *Owner* obtains in writing the *District Manager's* approval for the proposed monitoring program.

7. SOURCE WATER PROTECTION

The *Owner* shall, within sixty (60) calendar days of the Minister of the Environment posting approval of a *Source Protection Plan* on the environmental registry established under the Environmental Bill of Rights, 1993 for the area in which this *Certificate* is applicable, apply to the *Director* for an amendment to this *Certificate* that includes the necessary measures to conform with all applicable policies in the approved *Source Protection Plan*.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment..

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected.
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works* .
6. Condition 6 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the Carp River watershed objectives specified in the City of Ottawa's response to the Minister's Order of July 21, 2008, and its Implementation Plan - Kanata West Development Area report as amended from time to time, and that the *Works* does not cause any impairment to the receiving watercourse.
7. Condition 7 is included to ensure that the works covered by this *Certificate* will conform to the significant threat policies and designated Great Lakes policies in the *Source Protection Plan*.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act , R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
MSG 1ES

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario

M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 31st day of March, 2011



Ian Parrott, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

ET/

c: District Manager, MOE Ottawa
Jennifer Alley, David Schaeffer Engineering Ltd.

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 7045-8X5HLB

Issue Date: September 6, 2012

Mattamy (Fairwinds North) Limited
50 Hines Rd Kanata
Ottawa, Ontario
K2K 2M5

Site Location: Fairwinds Subdivision
1698-1714 Maple Grove Road
(Lot 27 and 28, Concession 12)
City of Ottawa, Ontario

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the establishment of interim stormwater management *Works* for the collection, transmission, treatment and disposal of stormwater runoff from a catchment area of approximately 123.3 hectares, to provide enhanced water quality protection and to attenuate post-development peak flows to pre-development levels, discharging to Poole Creek, for all storm events up to and including the 100 year return storm, consisting of the following:

Stormwater Management System

A stormwater management system to service Mattamy Homes Fairwinds Subdivision (Fairwinds North parcel of 24.38 ha, Fairwinds South parcel of 30.64 ha and Fairwinds West parcel of 14.61 ha), Tartan Lands (parcel of 20.68 ha), existing Hydro Site (parcel of 0.4 ha), existing residential (parcel of 0.8 ha) and Bryanston Gate Subdivision (parcel of 31.82 ha), located along the north (existing residential and Fairwinds North) and south (all others) sides of Maple Grove Road in the vicinity of the intersection of Maple Grove Road and Huntmar Drive in the City of Ottawa, providing quality control for 123.33 ha and quantity control for 91.51 ha with all areas tributary to the future Pond P4, proposed under the Kanata West Master Servicing Study.

Interim Pond 1 Facility

Stormwater Management Facility described as Interim Pond 1 featuring a hydrodynamic separator (CDS PSW 100_100 model) between MH 181 and the storm sewer outfall into the SWM facility for quality control (designed for an estimated flow of 1.8 m³/s treatment based on the 25 mm design storm) and a main pond well for quantity control providing 31,730 m³ of active storage volume in addition to 4,466 m³ of permanent pool

with a normal water level of 1.0 m. Facility is designed with by-pass weirs to be installed as follows:

- (a) Bypass weir at hydrodynamic separator for flows greater than the $1.812 \text{ m}^3/\text{s}$ hydrodynamic separator treatment flow to discharge to the SWM facility;
- (b) Bypass weir at MH 181 as an emergency overflow for levels in excess of the 100-year to the downstream Maple Grove trunk storm sewer, discharging directly to Poole Creek via an outfall downstream of the Maple Grove crossing.

The secondary and tertiary pond outlets are comprised of a 1200 mm wide \times 1000 mm high vertical rectangular orifice with an invert at the top of flow augmentation volume at 94.30 m, and a 750 mm long concrete weir with an invert set above the 2-year water level at 95.75 m. The combination orifice / weir assembly provides quantity control for the 2 to 100 year events. A separate 10 m long emergency overflow spillway is also provided with crest level set above the 100 year water level at 97.55 m. The majority of outflows will be conveyed to the Maple Grove Road trunk sewer via an interim 1800 mm diameter pipe, and then discharge to Poole Creek downstream of the Maple Grove Road crossing. The flow augmentation volume / base flow (first 0.30 m of active storage) will be released via a 300 mm pipe to Poole Creek, controlled by a 75 mm orifice with its invert set at the normal water level (94.00 m). A 300 mm maintenance outlet discharging to Poole Creek is provided as well. The maximum controlled 100 year peak release rate from the pond is estimated at $6.209 \text{ m}^3/\text{s}$.

Temporary storm Diversion Ditch

A temporary storm conveyance ditch to divert flows from Bryanston Gate subdivision to an existing storm sewer on Maple Grove Road to allow for deep service construction west on Maple Grove Road from its current termination at Montserrat Street to Johnwoods Street. The flows will ultimately discharge to the Interim Pond1.

The diversion ditch is a 2.0 m wide, vertical rock trench with varying depths and 3:1 side slopes tying into existing storm sewer. The ditch is approximately 630 m long at a slope of 0.50%. The ditch conveys the 5-year flow from Bryanston Gate ($2.73 \text{ m}^3/\text{s}$) as well as the 5-year flow tributary to the ditch within lands it will be constructed through (future residential by Mattamy and Tartan with an area of 4.45 ha). The peak flow in the diversion ditch is $3.06 \text{ m}^3/\text{s}$.

The diversion ditch will connect to the existing 2250 mm diameter storm sewer on Maple Grove Road via a ditch inlet catch basin with a 2.4 m \times 1.6 m grate and a 1500 mm diameter storm outlet pipe.

Erosion/sedimentation control

Also included are the erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works*;

For the purpose of this environmental compliance approval, the following definitions apply:

"Approval" means this entire document and any schedules attached to it, and the application;

"Director" means a person appointed by the Minister pursuant to section 5 of the *EPA* for the purposes of Part II.1 of the *EPA*;

"District Manager" means the District Manager of the Ottawa District Office of the *Ministry*;

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;

"Ministry" means the ministry of the government of Ontario responsible for the *EPA* and *OWRA* and includes all officials, employees or other persons acting on its behalf;

"Owner" means Mattamy (Fairwinds North) Limited and its successors and assignees;

"OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended;

"Source Protection Plan" means a drinking water source protection plan prepared under the Clean Water Act, 2006; and

"Works" means the sewage works described in the *Owner*'s application, and this *Approval*.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Approval* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Approval*, and the application for approval of the *Works*.

(3) Where there is a conflict between a provision of any document in the Schedule A of this *Approval* and the conditions of this *Approval*, the Conditions in this *Approval* shall take precedence, and where there is a conflict between the documents in the Schedule, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the documents listed in Schedule A and the application, the application shall take precedence unless it is clear that the purpose of the documents was to amend the application.

(5) The Conditions of this *Approval* are severable. If any Condition of this *Approval*, or the application of any requirement of this *Approval* to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this *Approval* shall not be affected thereby.

2. **EXPIRY OF APPROVAL**

(1) The approval issued by this *Approval* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Approval*.

3. **CHANGE OF OWNER**

(1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner*;

(b) change of address of the *Owner*;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager*; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager*.

4. **OPERATION AND MAINTENANCE**

The *Owner* shall, upon issuance of this *Approval*, carry out the following operation and maintenance program (which for all intents and purposes has been aligned with the plan outlined in an August 27, 2012 memorandum from Ms. Jennifer Ailey, P.Eng., of David Schaeffer Engineering Ltd. (DSEL)):

(1) The *Owner* shall undertake routine visual inspections of the *Works* over the lifetime of the *Works* including inspection of the facility after each large event (15 mm or greater in the previous 24 hours as required by the City of Ottawa's Kanata West Overall Monitoring Plan) to ensure proper functioning of the facility including confirming adequacy of the general site conditions (erosion / landscaping etc.), depth of sediment accumulation, proper functioning of the monitoring equipment, and *Works*' inlet and

outlet controls. As required the *Owner* shall clean and maintain the *Works* to ensure proper functioning of the facility and to prevent excessive buildup of sediments, oil/grit and/or vegetation both within the CDS unit and the Interim Pond 1.

(2) The *Owner* shall ensure that the design minimum liquid retention volume (permanent pool) is maintained within the Pond cell, and water levels are monitored to determine drawdown characteristics of the facility (typically 24 – 48 hours). Flow monitoring is not proposed in this program.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the *Owner's* corporate head office for inspection by the *Ministry*. The logbook shall include the following:

(a) the name of the *Works*; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

(4) The *Owner* shall prepare an operations manual within three (3) months of the issuance of this *Approval*, that includes, but is not necessarily limited to, the following information:

(a) operating procedures for routine operation of the *Works*;

(b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works*; and

(d) procedures for the inspection and calibration of monitoring equipment.

(5) The *Owner* shall maintain the operations manual current and retain a copy at the *Owner's* corporate head office for the operational life of the *Works* and upon request make the manual available to the staff of the *Ministry* as well as the City of Ottawa.

5. MONITORING AND RECORDING

The *Owner* shall, upon issuance of this *Approval*, carry out the following monitoring and recording program (which for all intents and purposes has been aligned with the plan outlined in an August 27, 2012 memorandum from Ms. Jennifer Ailey, P.Eng., of David Schaeffer Engineering Ltd. (DSEL)).

(1) The *Owner* shall undertake the monitoring program for the *Works* for a period of at least two years (between May 1st and October 31st of each year) for water quality, water levels and general performance to evaluate *Works'* performance for both base flow and rainfall event conditions.

(2) The monitoring program shall include:

(a) water quality samples to be collected at the inlet to the CDS unit and outlet of the Interim Pond 1 consisting of composite sample types collected hourly over 24 to 48-hour periods by an automated sampling system outfitted with a water level gauge trigger to automatically tie sampling efforts to rain events.

(b) monitoring including sampling and water level measurement to target a minimum number of rainfall events to evaluate facility performance including:

- o Two medium rainfall events (7-15 mm); and
- o Three large rainfall events (greater than 15 mm)

with rainfall measurements obtained from the nearest available City of Ottawa rain gauge(s) (Maple Grove and Jackson Trails rain gauges as suggested by DSEL, or others chosen in consultation with Ottawa District Office and the City of Ottawa).

(c) water quality samples reflecting base flow conditions for inflow and outflow to be collected as grab samples on weekly basis, or acquired from the continuous monitoring samples from the automatic sampling system. A minimum of (5) inter-event samples shall be collected each monitoring season.

(d) water quality parameters include Total Suspended Solids (TSS), Total Phosphorus (TP) and temperature (spot measurement) plus provision for continuous water temperature readings of the inlet and outlet water temperature using automated equipment to measure thermal impact as proposed by DSEL. The data in the automated temperature gauges is to be collected at the end of the season along with weekly manual temperature readings taken during sample collection.

(3) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

(a) the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", as amended from time to time by more recently published editions;

(b) the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;

(c) the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.

(4) In the event that the *Works* continue to exist after 5 years of operation, the *Owner* shall undertake a topographic / bathymetric survey to determine sediment deposition and deposition rates, and determine if there is a need to clean out the facility prior to decommissioning when the ultimate facility is constructed.

(5) The *Owner* shall obtain written confirmation of the proposed Monitoring Program from the *District Manager* within three months of the issuance of this *Approval*, and incorporated any suggested revisions/improvements into the monitoring protocol as suggested by the *District Manager*.

(6) The proposed Monitoring Program is for a minimum period of two years following which it can be modified or eliminated by the *District Manager* in writing from time to time.

(7) The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this *Approval*.

6. REPORTING

(1) The *Owner* shall prepare, and submit to the *District Manager* an annual performance report by March 15th, covering the monitoring period of the previous year. The reports shall contain, but shall not be limited to, the following information:

(a) a description of the physical *Works*, its location and how it is designed to function;

(b) an estimate of percentage build out for the contributing drainage area to the *Works*;

(c) a tabulation, interpretation and summary of all monitoring data, including an overview of the success and adequacy of the *Works*;

(d) a description of any operating problems encountered and corrective actions taken;

(e) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the *Works*;

(f) a summary of any effluent quality assurance or control measures undertaken in the reporting period;

(g) a summary of the calibration and maintenance carried out on all effluent monitoring equipment;

(h) a summary of any complaints received during the reporting period and any steps taken to address the complaints;

(i) A description of any consideration that may need to be implemented upon transition and/or decommissioning of the interim facility once an ultimate SWM facility has been provided, and

(j) any other information the *District Manager* requires from time to time;

(2) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Approval* and the practice that the *Approval* is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment..
3. Condition 3 is included to ensure that the *Ministry* records are kept accurate and current with respect to approved *Works* and to ensure that subsequent owners of the works are made aware of the *Approval* and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected. As well, the inclusion of a comprehensive operations manual is an integral part of the operation of the *Works*.
5. Condition 5 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works*, on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the design objectives of the *Works*.
6. Condition 6 is included to provide a performance record for future references, to ensure that the *Ministry* is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this *Approval*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

The following Items form Schedule "A" of the *Approval*:

Submitted documents for amendment of *Works*:

1. Application for Approval of Municipal and Private Sewage Works Amendment to Certificate of Approval # 0251-6XPLBL for SWM Pond on Maple Grove Road, City of Ottawa submitted by Ms. Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd.
2. Report entitled, "Design Brief for the Reconstruction of Maple Grove Road Mattamy Home", prepared by David Schaeffer Engineering Ltd. dated May 31, 2012 including all its Appendices and submitted engineering drawings.
3. Memorandum Report dated May 10, 2012 prepared by David Schaeffer Engineering Ltd. regarding Environmental Compliance Approval, Maple Grove Road Ditch Diversion.
4. Report entitled, "Hydraulic Computations, Fairwinds Community" analysing the hydraulics of a CDS off-line unit prepared by Echelon Environmental, dated April 26, 2012.
5. Electronic Mail from Ms. Ailey in response to Ministry Sr. Wastewater Engineer, Fariha Pannu's request for additional information, also including the following attachments:
 - (a) A memorandum report from JF Sabourin and Associates, dated August 27, 2012, providing a comparison of April 2011 design reviewed by the third party reviewer Greenland International and the latest April 2012 interim conditions drainage;
 - (b) Additional documentation related to CDS PSW 100_100 model treatment unit's TSS removal efficiency provided by Echelon Environmental;
 - (c) Fairwinds Interim Stormwater Management Pond 1 Monitoring Plan prepared by David Schaeffer Engineering Ltd. dated August 27, 2012.

Previously submitted documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Mr. Robert L. Phillips, C.E.T. of the City of Ottawa Infrastructure Approvals Division as a direct submission on behalf of Mattamy (Poole Creek) Limited, received November 17, 2006;
2. Report entitled, "Mattamy Homes Fairwinds Subdivision Stormwater Management Report and Temporary Stormwater Management Facility Design Brief", dated October 10, 2006 including the enclosed engineering plans and design drawings prepared by Stantec Consulting Ltd.
3. Revised report entitled, "Mattamy Homes Fairwinds Subdivision Phase 1 Stormwater Management Report and Temporary Stormwater Management Facility Design Brief", dated January 11, 2007 including the enclosed engineering plans and design drawings prepared by Stantec Consulting Ltd.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s).
0251-6XPLBL issued on January 29, 2007

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
MSG 1E5

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 6th day of September, 2012



Mansoor Mahmood, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

FP/

c: District Manager, MOE Ottawa
Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd.

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 2213-7YETBS
Issue Date: January 4, 2010

Riotrin Properties (Hazeldean) Inc.
359 Kent St, No. Unit 400
Ottawa, Ontario
K2P 0R6

Site Location: Hazeldean Interim SWM Facility
Lot 28, 29, Concession 12, Goulbourn
City of Ottawa, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

the establishment of interim stormwater management *Works* for the collection, transmission, treatment and disposal of stormwater runoff from a catchment area of 18.98 hectares, consisting of commercial buildings, to provide Normal water quality protection and to attenuate post-development peak flows to pre-development levels, discharging to the Carp River, for all storm events up to and including the 100 year return storm, consisting of the following:

Stormwater Management System

An interim stormwater management system to service the Hazeldean commercial development and road widening, located on Hazeldean Road west from Terry Fox Drive, relying on the following:

- An interim pond having a design minimum liquid retention volume of 7,994 m³ at elevation 95.20 m, which includes 2,087 m³ of permanent pool at an elevation of 93.75 m (outlet invert) and 5,907 m³ of extended detention.
- The pond is equipped with a forebay of approximately 60 m length and 1.0 m depth; an outlet structure of 125 mm orifice (93.75 m elevation); 600 mm and 1200 mm concrete weirs (94.20 m and 94.71 m elevations respectively); and a 6.1 m emergency overflow weir (95.21 m elevation). These structures provide for a controlled discharge flow of 1.34 m³/s for the 100 year storm.
- A combination of permanent and interim Internal Control Devices (ICDs) IPEX Models A-F (or equivalent), Hydrovex vertical vortex flow regulators, and circular orifice plugs, sized to maximize

volume storage for the 100 year storm event by allowing surface ponding and subsurface storage for a design liquid retention volume of approximately 2,213 m³ (interim) and 2,696 m³ (ultimate).

- Permanent restricted flow roof drains located on building rooftops not exceeding 61 mm depth, equipped with standard Zum Model Z-105-5 Control-Flow Single Notch Roof Drain (or equivalent), for design liquid retention volume of 1,134 m³.

The above, including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned *Works*.

All in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Elizabeth Henderson, Development Director of Riotrin Properties (Hazeldean), dated November 10, 2009, and signed off by Guy Bourgon, P.Eng., of the City of Ottawa;
2. Trinity - Hazeldean Road, Interim Stormwater Management Facility Design Brief, 3rd Revision: October 13, 2009, prepared by Stantec Consulting of Ottawa.
3. Hazeldean Road, Ottawa, Site Stormwater Management Report, 4th Revision: October 13, 2009, prepared by Stantec Consulting of Ottawa.
4. Letter from Peter Moroz, P.Eng., of Stantec Consulting to Edgardo Tovilla, P.Eng., of the MOE, dated December 7, 2009, in response to comments by MOE.
5. Memo dated December 23, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to Jason Schaefer, P.Eng., of the MOE with additional supporting information re: the sanitary sewage system capacity and timelines for infrastructure upgrades.
6. City of Ottawa and KWOG Response to the Minister's Order by letter dated August 24, 2009.
7. Implementation Plan Kanata West Development Area, City of Ottawa, October 2009.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Certificate" means this entire Certificate of Approval document, issued in accordance with Section 53 of the *Ontario Water Resources Act*, and includes any schedules;
- (2) "Director" means any Ministry employee appointed by the Minister pursuant to Section 5 of the *Ontario Water Resources Act* ;
- (3) "Ministry" means the Ontario Ministry of Environment;

- (4) "Regional Director" means the Regional Director of the Eastern Region of the Ministry;
- (5) "District Manager" means the District Manager of the Ottawa District Office of the Ministry's Eastern Region;
- (6) "Owner" means Riotrin Properties (Hazeldean) Inc.;
- (7) "Municipality" means the City of Ottawa; and,
- (8) "Works" means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate*.

(2) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(3) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate*.

3. CHANGE OF OWNER

The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ; and

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* .

4. OPERATION AND MAINTENANCE.

(1) The *Owner* shall ensure that the design minimum liquid retention volume(s) is maintained at all times.

(2) The *Owner* shall inspect the *Works* at least once a year and, if necessary, clean and maintain the *Works* to prevent the excessive buildup of sediments and/or vegetation.

(3) The *Owner* shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the *Owner's* offices for inspection by the *Ministry* . The logbook shall include the following:

(a) the name of the *Works* ; and

(b) the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed.

5. RECORD KEEPING

The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this *Certificate* .

6. MONITORING PROGRAM

(1) The *Owner* shall, by January 1, 2011, submit for the *District Manager's* approval, a final stormwater monitoring program to be developed in consultation with the Municipality and the MOE.

(2) Notwithstanding subsection (1) , the proposed *Works* shall not commence operation until the *Owner* obtains in writing the *District Manager's* approval for the proposed monitoring program.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment..
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to approved works and to ensure that subsequent owners of the works are made aware of the certificate and continue to operate the works in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated and maintained such that the environment is protected.
5. Condition 5 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the *Works* .
6. Condition 6 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the Carp River watershed objectives specified in the City of Ottawa's response to the Minister's Order of July 21, 2008, and its Implementation Plan - Kanata West Development Area report, and that the *Works* does not cause any impairment to the receiving watercourse.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act , R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 4th day of January, 2010



Mansoor Mahmood, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

ET/

c: District Manager, MOE Ottawa District Office
Peter Moroz, P. Eng., Stantec Consulting Ltd.
Guy Bourgon, P.Eng., City of Ottawa

AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 0955-7SUPV3
Issue Date: December 23, 2009

Mattamy (Fairwinds) Limited
123 Huntmar Drive
Ottawa, Ontario K2S 1B9

Site Location: Fairwinds Subdivision
Lot Part Lots 27 & 28, Concession 12
Ottawa City, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

a sanitary sewage pumping station, a temporary forcemain (200 mm diameter) and twin permanent forcemains (200 and 300 mm in diameter, respectively), to be constructed to service Fairwinds Subdivision - Phase 1, in the City of Ottawa comprising the following:

- one (1) temporary *sanitary sewage pumping station* located north easterly of the intersection of Huntmar Road and Maple Grove Road, designed for a peak flow rate of 54 L/s, consisting of a 3.6 m diameter wet well equipped with two (2) submersible pumps, one for duty and one for standby, each pump has a rated capacity of 54 L/s at a total dynamic head of 57.2 m, complete with electrical and electronic control systems, an ultrasonic level transmitter with float switches to communicate overflow conditions, discharge piping, ventilation system, valves, by-pass piping, overflow pipe discharging to a proposed temporary stormwater management wet pond under Ministry of Environment Reference No. 7203-6VMTJN, a proposed 200 kW standby generator set, and all other appurtenances necessary to have a complete and operable pumping station, discharging to the proposed temporary 200 mm diameter forcemain;
- a temporary *sanitary forcemain*, (200 mm in diameter) along Block 197, Block 170, Block 175 and Harmattan Avenue from the pumping station to the permanent twin 200 and 300 mm diameter forcemain at the intersection of Huntmar Road and Harmattan Avenue; and
- *twin sanitary forcemains*, (200 and 300 mm in diameter, respectively) on Maple Grove Road, Huntmar Road and Iber Road discharging to an existing sanitary manhole (Stittsville Collector) at the intersection of Iber Road and Abbot Street East.

All in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Mattamy (Fairwinds) Limited, dated July 14, 2006, and prepared by Stantec Consulting Ltd.
2. Application for Approval of Municipal and Private Sewage Works submitted by Frank Cairo of Mattamy (Fairwinds) Limited, received on April 2, 2009, and prepared by Stantec Consulting Ltd.
3. Letter from Peter Moroz, P.Eng. of Stantec Consulting Ltd., to Edgardo Tovilla, P.Eng., of the MOE, dated December 21, 2009, to change the scope of the application received on April 2, 2009, to extend the expiration date of the sewage works on CofA 4175-6XAJR8 issued on January 17, 2007.
4. Memo dated December 17, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to Jason Schaefer, P.Eng., of the MOE with additional supporting information re: the sanitary sewage system capacity and timelines for infrastructure upgrades.
5. Memo dated December 23, 2009, from from Guy Bourgon, P.Eng. of the City of Ottawa to Edgardo Tovilla, P.Eng., of the MOE, with the endorsement to the scope of this application.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"Act " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

"Certificate " means this entire certificate of approval document, issued in accordance with Section 53 of the Act , and includes any schedules;

"Director " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Act ;

"District Manager " means the District Manager of the Ottawa District Office of the Ministry;

"Ministry " means the Ontario Ministry of the Environment;

"Owner " means Mattamy (Fairwinds) Limited and includes its successors and assignees;

"Peak Flow Rate " means the peak instantaneous flow of sewage for which the temporary sewage pumping station was designed to handle;

"Regional Director " means the Regional Director of the Eastern Region of the Ministry;

"Works " means the sewage works described in the *Owner* 's application, this *Certificate* and in the

supporting documentation referred to herein, to the extent approved by this *Certificate*.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate*.

(3) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this certificate shall not be affected thereby.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply after the commissioning of the ultimate Kanata West Pump Station or to the temporary *sanitary sewage pumping station* upgrades.

3. CHANGE OF OWNER

(1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within 30 days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of

the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ;

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* ;

(2) In the event of any change in ownership of the *Works* , other than a change to a successor municipality, the *Owner* shall notify in writing the succeeding owner of the existence of this *Certificate* , and a copy of such notice shall be forwarded to the *District Manager* and the *Director* .

4. OPERATION AND MAINTENANCE

(1) The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works* .

(2) The *Owner* shall update the operations manual as necessary. The manual shall include, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the *Works* ;

(b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager* ; and

(f) procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(3) The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works* . Upon request, the *Owner* shall make the manual available to *Ministry* staff.

5. MONITORING AND RECORDING

The *Owner* shall, upon issuance of this Certificate, carry out the following monitoring program:

(1) The *Owner* shall monitor the monthly average pump flow rates, the daily average flows and the daily peak flows.

(2) The *Owner* shall record the monitored flows and compare with design flows and growth projections for the serviced area.

(3) The *Owner* shall install and maintain (a) continuous flow measuring device(s), to measure the flowrate of the effluent from the *Works* with an accuracy to within plus or minus 10 per cent (+/- 10%) of the actual flowrate for the entire design range of the flow measuring device, and record the flowrate at a monthly average, daily average and daily peak flows.

(4) The *Owner* shall retain for a minimum of three (3) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this *Certificate*.

6. REPORTING

(1) The *Owner* shall prepare and submit a report that will include the monitoring program to the *District Manager* by December 31, every year. The report shall include, but not limited to:

(a) the monthly average pump flow rates, the daily average flows and the daily peak flows;

(b) compare with design flows and growth projections for the serviced area;

(c) if actual peak flows exceed design peak flows, the *Owner* shall conduct an investigation to determine the source of the exceedances, infiltration/inflow and other factors;

(2) In addition to the obligations under Part X of the Environmental Protection Act, the *Owner* shall, within 10 working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the *District Manager* describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(3) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were

described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .

2. Condition 2 is included to ensure that the *Works* are constructed in a timely manner so that standards applicable at the time of Approval of the *Works* are still applicable at the time of construction, to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the *Ministry* records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the *Works* are made aware of the *Certificate* and continue to operate the *Works* in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works*.
5. Condition 5 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the design objectives of the sewage system.
6. Condition 6 is included to provide a performance record for future references, to ensure that the *Ministry* is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this *Certificate*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 4175-6XAJR8 issued on January 17, 2007.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;

6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 23rd day of December, 2009



Mansoor Mahmood, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

ET/

c: District Manager, MOE Ottawa District Office
Peter Moroz, P.Eng., Stantec Consulting Limited
Guy Bourgon, P.Eng., City of Ottawa

**AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 0455-893NVG
Issue Date: September 9, 2010**

Mattamy (Fairwinds) Limited
123 Huntmar Dr
Kanata, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision
Lot Part Lots 27 & 28, Concession 12
Ottawa City, ON

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

a temporary sanitary sewage pumping station, a temporary forcemain (200 mm diameter) and twin permanent forcemains (200 and 300 mm in diameter, respectively), to be constructed to service Fairwinds Subdivision - Phase 1 and the North American Lands (east from Fairwinds Phase 5), in the City of Ottawa, comprising the following:

- one (1) temporary *sanitary sewage pumping station* located north easterly of the intersection of Huntmar Road and Maple Grove Road, designed for a peak flow rate of 54 L/s, consisting of a 3.6 m diameter wet well equipped with two (2) submersible pumps, one for duty and one for standby, each pump has a rated capacity of 54 L/s at a total dynamic head of 57.2 m, complete with electrical and electronic control systems, an ultrasonic level transmitter with float switches to communicate overflow conditions, discharge piping, ventilation system, valves, by-pass piping, overflow pipe discharging to a proposed temporary stormwater management wet pond under Ministry of Environment Reference No. 7203-6VMTJN, a proposed 200 kW standby generator set, and all other appurtenances necessary to have a complete and operable pumping station, discharging to the proposed temporary 200 mm diameter forcemain;
- a temporary *sanitary forcemain*, (200 mm in diameter) along Block 197, Block 170, Block 175 and Harmattan Avenue from the pumping station to the permanent twin 200 and 300 mm diameter forcemain at the intersection of Huntmar Road and Harmattan Avenue; and
- *twin sanitary forcemains*, (200 and 300 mm in diameter, respectively) on Maple Grove Road, Huntmar Road and Iber Road discharging to an existing sanitary manhole (Stittsville Collector) at the intersection of Iber Road and Abbot Street East.

All in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Mattamy (Fairwinds) Limited, dated July 14, 2006, and prepared by Stantec Consulting Ltd.
2. Application for Approval of Municipal and Private Sewage Works submitted by Frank Cairo of Mattamy (Fairwinds) Limited, received on April 2, 2009, and prepared by Stantec Consulting Ltd.
3. Letter from Peter Moroz, P.Eng. of Stantec Consulting Ltd., to Edgardo Tovilla, P.Eng., of the MOE, dated December 21, 2009, to change the scope of the application received on April 2, 2009, to extend the expiration date of the sewage works on CofA 4175-6XAJR8 issued on January 17, 2007.
4. Memo dated December 17, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to Jason Schaefer, P.Eng., of the MOE with additional supporting information re: the sanitary sewage system capacity and timelines for infrastructure upgrades.
5. Memo dated December 23, 2009, from from Guy Bourgon, P.Eng. of the City of Ottawa to Edgardo Tovilla, P.Eng., of the MOE, with the endorsement to the scope of this application.
6. Application for Approval of Municipal and Private Sewage Works submitted by Fabio Mazzacco, A.S.O. of Mattamy (Fairwinds) Limited, received on August 12, 2010, and supporting documents prepared by DSEL of Stittsville, ON.
7. Email from Chris Ogilvie of the City of Ottawa to Edgardo Tovilla of the MOE, dated August 13, 2010, with supporting documents noting approval for the application for amendment re: North American lands.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"Act" means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

"Certificate" means this entire certificate of approval document, issued in accordance with Section 53 of the Act, and includes any schedules;

"Director" means any *Ministry* employee appointed by the Minister pursuant to section 5 of the Act;

"District Manager" means the District Manager of the Ottawa District Office of the Ministry;

"Ministry" means the Ontario Ministry of the Environment;

"Owner" means Mattamy (Fairwinds) Limited and includes its successors and assignees;

"*Peak Flow Rate* " means the peak instantaneous flow of sewage for which the temporary sewage pumping station was designed to handle;

"*Regional Director* " means the Regional Director of the Eastern Region of the Ministry;

"*Works* " means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate*.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .

(3) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this certificate shall not be affected thereby.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply after the commissioning of the ultimate Kanata Wcst Pump Station or to the temporary *sanitary sewage pumping station* upgrades.

3. CHANGE OF OWNER

(1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within **thirty (30) days** of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ;

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* ;

(2) In the event of any change in ownership of the *Works*, other than a change to a successor municipality, the *Owner* shall notify in writing the succeeding owner of the existence of this *Certificate*, and a copy of such notice shall be forwarded to the *District Manager* and the *Director*.

4. OPERATION AND MAINTENANCE

(1) The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works*.

(2) The *Owner* shall update the operations manual as necessary. The manual shall include, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the *Works* ;

(b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and

procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager*; and

(f) procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(3) The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works*. Upon request, the *Owner* shall make the manual available to *Ministry* staff.

5. MONITORING AND RECORDING

The *Owner* shall, upon issuance of this Certificate, carry out the following monitoring program:

(1) The *Owner* shall monitor the monthly average pump flow rates, the daily average flows and the daily peak flows.

(2) The *Owner* shall record the monitored flows and compare with design flows and growth projections for the serviced area.

(3) The *Owner* shall install and maintain (a) continuous flow measuring device(s), to measure the flowrate of the effluent from the *Works* with an accuracy to within plus or minus 10 per cent (+/- 10%) of the actual flowrate for the entire design range of the flow measuring device, and record the flowrate at a monthly average, daily average and daily peak flows.

(4) The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this *Certificate*.

6. REPORTING

(1) The *Owner* shall prepare and submit a report that will include the monitoring program to the *District Manager* by **December 31**, every year. The report shall include, but not limited to:

(a) the monthly average pump flow rates, the daily average flows and the daily peak flows;

(b) compare with design flows and growth projections for the serviced area;

(c) if actual peak flows exceed design peak flows, the *Owner* shall conduct an investigation to determine the source of the exceedances, infiltration/inflow and other factors;

(2) In addition to the obligations under Part X of the Environmental Protection Act, the *Owner* shall, within **ten (10) working days** of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the *District Manager* describing the cause and discovery of the spill or loss, clean-up and recovery measures

taken, preventative measures to be taken and schedule of implementation.

(3) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .
2. Condition 2 is included to ensure that the *Works* are constructed in a timely manner so that standards applicable at the time of Approval of the *Works* are still applicable at the time of construction, to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the *Ministry* records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the *Works* are made aware of the *Certificate* and continue to operate the *Works* in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works*.
5. Condition 5 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the design objectives of the sewage system.
6. Condition 6 is included to provide a performance record for future references, to ensure that the *Ministry* is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this *Certificate*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 0955-7SUPV3 issued on December 23, 2009.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days

after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter O.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
MSG 1E5

AND

The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 9th day of September, 2010



Jennifer Barolet, P.Eng.
Director
Section 53, Ontario Water Resources Act

ET/

c: District Manager, MOE Ottawa
Jennifer Ailey, P.Eng., David Schaeffer Engineering Ltd.

**CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 4141-7ZFNYZ
Issue Date: March 31, 2011**

Mattamy (Fairwinds) Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision, Phase 5A
Lot 26, 27 and 28, Concession 12 Goulbourn Township
City of Ottawa.

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

- **storm sewers** to be constructed on Coriolis Court, Gallantry Way, Khamsin Street, Brigatine Avenue and storm sewer Easement approximately 30m east of Khamsin Street within Phase 5A of the Fairwinds Subdivision, in the City of Ottawa;

all in accordance with the application dated November 10, 2009 and received on December 4, 2009, including final plans and specifications and additional information submitted by David Schaeffer Engineering Ltd.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "**Certificate** " means this entire Certificate of Approval document, issued in accordance with Section 53 of the *Ontario Water Resources Act* , and includes any schedules;
- (2) "**District Manager** " means the District Manager of Ottawa District Office of the Ministry;
- (3) "**Minister's Decision Letter** " means the letter dated March 30, 2011 signed by the Minister of the Environment, and addressed to the City of Ottawa (ENV1283MC-2010-5172);
- (4) "**Ministry** " means the Ontario Ministry of Environment;
- (5) "**Owner** " means Mattamy (Fairwinds) Limited, and includes its successors and assignees; and,

- (6) "*Works*" means the sewage works described in the *Owner*'s application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate*.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITIONS

- 1.1 The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate*.
- 1.3 Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.
- 1.4 Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Certificate* shall not be affected thereby.

2. EXPIRY OF APPROVAL

- 2.1 The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate*.

3. OPERATION AND MAINTENANCE

- 3.1 (a) Notwithstanding any terms and conditions of this *Certificate*, the proposed *Works* shall not commence operation until the *Owner* obtains a letter from the *District Manager*, stating that the proposed *Works* comply with all the applicable terms and conditions that may apply to the proposed *Works* as specified in the *Minister's Decision Letter*.
- (b) The *Owner* shall, prior to implementing the proposed *Works*, submit to the *District Manager* all supporting documentation that demonstrates that the proposed *Works* comply with all the applicable

terms and conditions as specified in the *Minister's Decision Letter*.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate*.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3.1 is included to ensure that the proposed *Works* comply with the *Minister's Decision Letter*.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 31st day of March, 2011



Sherif Hegazy, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

SH/

c: District Manager, MOE Ottawa District.
Jennifer Ailey, P. Eng., David Schaeffer Engineering Ltd.



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE WATER WORKS
NUMBER 3060-55AK8R

Urbandale Corporation
2193 Arch Street
OTTAWA, Ontario
K1G 2H5

Site Location: Bridlewood Subdivision Phase 5C-1
Part of Lot 28, Concession 6
Ottawa City, Ontario

You have applied in accordance with Section 52 of the Ontario Water Resources Act for approval of:

watermains to be constructed in the City of Ottawa, on Bridgestone Drive, Saddlesmith Avenue, Cedar Valley Drive and Walkway Block 20, all in accordance with the application from Urbandale Corporation, dated September 11, 2001, including final plans and specifications prepared by J.L. Richards & Associates Limited, Consulting Engineers.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal

The Director
Section 52, Ontario Water Resources Act

2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted water works are approved under Section 52 of the Ontario Water Resources Act.

DATED AT TORONTO this 11th day of December, 2001



Yvonne Hall, P.Eng.
Director
Section 52, *Ontario Water Resources Act*

WL/

c: District Manager, MOE Ottawa
Lucie Dalrymple, P.Eng., J.L. Richards & Associates Limited
P. Page, Clerk, City of Ottawa



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 7303-55AKMN

Urbandale Corporation
2193 Arch Street
OTTAWA, Ontario
K1G 2H5

Site Location: Bridlewood Subdivision Phase 5C-1
Part of Lot 28, Concession 6
Ottawa City, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

storm and sanitary sewers to be constructed in the City of Ottawa, on Bridgestone Drive, Saddlesmith Avenue, Cedar Valley Drive and Walkway Block 20, all in accordance with the application from Urbandale Corporation, dated September 11, 2001, including final plans and specifications prepared by J.L. Richards & Associates Limited, Consulting Engineers.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment

P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 11th day of December, 2001



Yvonne Hall, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

WL/

c: District Manager, MOE Ottawa
Lucie Dalrymple, P.Eng., J.L. Richards & Associates Limited
P. Page, Clerk, City of Ottawa

**AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 4652-8J5K9D
Issue Date: July 4, 2011**

Mattamy (Fairwinds) Limited
123 Huntmar Drive
Kanata, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision
Lot Part Lots 27 & 28, Concession 12
City of Ottawa, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

a temporary sanitary sewage pumping station, a temporary forcemain (200 mm diameter) and twin permanent forcemains (200 and 300 mm in diameter, respectively), to service Fairwinds Phases 1, 2, 3, 4, 7A, Fairwinds North Phase 1, 2A and the North American Lands Phase 1, in the City of Ottawa, comprising the following:

Proposed Works:

These proposed works are to increase the interim pumping station capacity to include the service area for the Fairwinds South Phases 5A, 7B and North American Lands Phase 2.

- upgrade of the temporary *sanitary sewage pumping station* located north easterly of the intersection of Huntmar Road and Maple Grove Road, designed for an increased peak flow rate of 92 L/s. Proposed upgrades including the replacement of impellers from 370 mm to 354 mm diameter on the existing 70 HP pumps;
- installation of new swabbing / bypass chamber on the temporary 300 mm diameter forcemain; and extension of the temporary 300 mm diameter forcemain to the wet well site (30 m) and connect to existing header; and
- all other controls, electrical equipment, instrumentation, piping, valves and appurtenances essential for the proper operation of the aforementioned sewage *Works*.

Existing Works:

- one (1) temporary *sanitary sewage pumping station* located north easterly of the

intersection of Huntmar Road and Maple Grove Road, designed for a peak flow rate of 54 L/s, consisting of a 3.6 m diameter wet well equipped with two (2) submersible pumps, one for duty and one for standby, each pump has a rated capacity of 54 L/s at a total dynamic head of 57.2 m, complete with electrical and electronic control systems, an ultrasonic level transmitter with float switches to communicate overflow conditions, discharge piping, ventilation system, valves, by-pass piping, overflow pipe discharging to a proposed temporary stormwater management wet pond under MOE Ref No. 7203-6VMTJN, a proposed 200 kW standby generator set, and all other appurtenances necessary to have a complete and operable pumping station, discharging to the proposed temporary 200 mm diameter forcemain;

- a temporary *sanitary forcemain*, (200 mm in diameter) along Block 197, Block 170, Block 175 and Harmattan Avenue from the pumping station to the permanent twin 200 and 300 mm diameter forcemain at the intersection of Huntmar Road and Harmattan Avenue; and
- *twin sanitary forcemains*, (200 and 300 mm in diameter, respectively) on Maple Grove Road, Huntmar Road and Iber Road discharging to an existing sanitary manhole (Stittsville Collector) at the intersection of Iber Road and Abbot Street East.
- All other controls, electrical equipment, instrumentation, piping, valves and appurtenances essential for the proper operation of the aforementioned sewage *Works*.

All in accordance with the following submitted supporting documents:

1. Application for Approval of Municipal and Private Sewage Works submitted by Mattamy (Fairwinds) Limited, dated July 14, 2006, and prepared by Stantec Consulting Ltd.
2. Application for Approval of Municipal and Private Sewage Works submitted by Frank Cairo of Mattamy (Fairwinds) Limited, received on April 2, 2009, and prepared by Stantec Consulting Ltd.
3. Letter from Peter Moroz, P.Eng. of Stantec Consulting Ltd., to Edgardo Tovilla, P.Eng., of the MOE, dated December 21, 2009, to change the scope of the application received on April 2, 2009, to extend the expiration date of the sewage works on CofA 4175-6XAJR8 issued on January 17, 2007.
4. Memo dated December 17, 2009, from Guy Bourgon, P.Eng., of the City of Ottawa to Jason Schaefer, P.Eng., of the MOE with additional supporting information re: the sanitary sewage system capacity and timelines for infrastructure upgrades.
5. Memo dated December 23, 2009, from Guy Bourgon, P.Eng. of the City of Ottawa to Edgardo Tovilla, P.Eng., of the MOE, with the endorsement to the scope of this application.
6. Application for Approval of Municipal and Private Sewage Works submitted by Fabio

Mazzacco, A.S.O. of Mattamy (Fairwinds) Limited, received on August 12, 2010, and supporting documents prepared by DSEL of Stittsville, ON.

7. Email from Chris Ogilvie of the City of Ottawa to Edgardo Tovilla of the MOE, dated August 13, 2010, with supporting documents noting approval for the application for amendment re: North American lands.
8. Application for Approval of Municipal and Private Sewage Works submitted by Susan Murphy, Vice President Land Development of Mattamy Homes Limited, received on May 31, 2011, and supporting documents prepared by Stantec Consulting Ltd. of Ottawa, ON.
9. Letter from Mike Green of Mattamy Homes to Edgardo Tovilla of the MOE, dated June 28, 2011, with supporting documents in response to Letter of Info Request.
10. Email from Gregory Chochlinski of Stantec to Edgardo Tovilla of the MOE, dated June 30, 2011, with supporting documents re: PS flow measuring strategy.
11. Email from Chris Ogilvie of the City of Ottawa to Edgardo Tovilla of the MOE, dated June 30, 2011, with supporting documents noting capacity allocation for the Hazeledean PS downstream.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"*Act* " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

"*Certificate* " means this entire certificate of approval document, issued in accordance with Section 53 of the *Act* , and includes any schedules;

"*Director* " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the *Act* ;

"*District Manager* " means the District Manager of the Ottawa District Office of the Ministry;

"*Existing Works* " means the sewage works previously constructed and approved under a certificate of approval;

"*Ministry* " means the Ontario Ministry of the Environment;

"*Owner* " means Mattamy (Fairwinds) Limited and includes its successors and assignees;

"*Proposed Works* " means the sewage works described in the Owner's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;

"*Peak Flow Rate* " means the peak instantaneous flow of sewage for which the temporary sewage

pumping station was designed to handle;

"*Regional Director*" means the Regional Director of the Eastern Region of the Ministry;

"*Works*" means the sewage works described in the *Owner*'s application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate* and includes both *Proposed Works* and *Existing Works*.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate*, the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate*.

(3) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this certificate shall not be affected thereby.

(6) The designation of the City of Ottawa as the operating authority of the site on the application for approval of the *Works* does not relieve the *Owner* from the responsibility of complying with any and all of the Conditions of this *Certificate*.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply after the commissioning of the ultimate Kanata West Pump Station or to the temporary *sanitary sewage pumping station* upgrades.

3. CHANGE OF OWNER

(1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of *Owner* ;

(b) change of address of the *Owner* ;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager* ;

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* ;

(2) In the event of any change in ownership of the *Works*, other than a change to a successor municipality, the *Owner* shall notify in writing the succeeding owner of the existence of this *Certificate*, and a copy of such notice shall be forwarded to the *District Manager* and the *Director*.

4. OPERATION AND MAINTENANCE

(1) The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works*.

(2) The *Owner* shall update the operations manual as necessary. The manual shall include, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the *Works* ;

(b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager*; and

(f) procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(3) The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works*. Upon request, the *Owner* shall make the manual available to *Ministry* staff.

5. MONITORING AND RECORDING

The *Owner* shall, upon issuance of this Certificate, carry out the following monitoring program:

(1) The *Owner* shall monitor the monthly average pump flow rates, the daily average flows and the daily peak flows.

(2) The *Owner* shall record the monitored flows and compare with design flows and growth projections for the serviced area.

(3) The *Owner* shall maintain the continuous flow measuring strategy to measure the flowrate of the effluent from the *Works* with an accuracy to within plus or minus 10 per cent (+/- 10%) of the actual flowrate and record the flowrate at a monthly average, daily average and daily peak flows.

(4) The *Owner* shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this *Certificate*.

6. REPORTING

(1) The *Owner* shall prepare and submit a report that will include the monitoring program to the *District Manager* by December 31, every year. The report shall include, but not limited to:

(a) the monthly average pump flow rates, the daily average flows and the daily peak flows;

(b) compare with design flows and growth projections for the serviced area;

(c) if actual peak flows exceed design peak flows, the *Owner* shall conduct an investigation to determine the source of the exceedances, infiltration/inflow and other factors;

(2) In addition to the obligations under Part X of the Environmental Protection Act, the *Owner* shall, within **ten (10) working days** of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the *District Manager* describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(3) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .
2. Condition 2 is included to ensure that the *Works* are constructed in a timely manner so that standards applicable at the time of Approval of the *Works* are still applicable at the time of construction, to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the *Ministry* records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the *Works* are made aware of the *Certificate* and continue to operate the *Works* in compliance with it.
4. Condition 4 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works*.
5. Condition 5 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the design objectives of the sewage system.
6. Condition 6 is included to provide a performance record for future references, to ensure that the *Ministry* is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this *Certificate*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 0455-893NVG issued on

September 9, 2010.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 4th day of July, 2011



Ian Parrott, P.Eng.
Director
Section 53, Ontario Water Resources Act

ET/

c: District Manager, MOE Ottawa
Gregory Chochlinski, Stantec Consulting Inc.



Ontario

Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL DRINKING WATER SYSTEMS
NUMBER 2486-6SBSNX
Issue Date: August 4, 2006

1591246 Ontario Limited
Mattamy (Pool Creek) Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision, Phase 1
Lot 27 & 28, Concession 12, Wards 4, 5 and 6
Ottawa City, Ontario

Pursuant to the Safe Drinking Water Act, 2002, S.O. 2002, c. 32, and the regulations made thereunder and subject to the limitations thereof, this approval is issued under Part V of the Safe Drinking Water Act, 2002, S.O. 2002, c. 32 to:

construct watermains in the City of Ottawa, on Huntmar Road, Maple Grove Road, Harmattan Avenue, Kohilo Crescent, Tramontana Drive, Rosehill Avenue, Helm Circle, Sonesta Crescent, and Leveche Drive, all in accordance with the application from 1591246 Ontario Limited, dated July 14, 2006, including final plans and specifications prepared by Stantec Consulting Ltd.

All or part of this decision may be reviewable in accordance with the provisions of Part X of the SDWA. In accordance with Section 129(1) of the Safe Drinking Water Act, Chapter 32 Statutes of Ontario, 2002, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. Section 129(2) sets out a procedure upon which the 15 days may be extended by the Tribunal. Section 129(3) of the Safe Drinking Water Act, Chapter 32 Statutes of Ontario, 2002, provides that the Notice requiring the hearing shall state:

1. The aspect of the decision, including the portion of the permit, licence, approval, order or notice of administrative penalty in respect of which the hearing is required; and
2. The grounds for review to be relied on by the person at the hearing.

Except with leave of the Tribunal, a person requiring a hearing in relation to a reviewable decision is not entitled to,

- (a) a review of an aspect of the decision other than that stated in the notice requiring the hearing; or
- (b) a review of the decision other than on the grounds stated in the notice

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;

5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

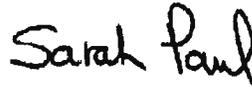
AND

The Director
Part V, *Safe Drinking Water Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted water works are approved under Part V of the Safe Drinking Water Act

DATED AT TORONTO this 4th day of August, 2006



Sarah Paul, P.Eng.
Director
Part V of the *Safe Drinking Water Act*,
2002

GG/

c: District Manager, MOE Ottawa District Office
R. L. Phillips, C. E. T. Program Manager, Infrastructure and Approvals
Pierre Page, City of Ottawa
T. Wilkie, Stantec Consulting



Ministry of the Environment
Ministère de l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 3465-6SBSHN
Issue Date: August 4, 2006

1591246 Ontario Limited
Mattamy (Pool Creek) Limited
123 Huntmar Drive
Ottawa, Ontario
K2S 1B9

Site Location: Fairwinds Subdivision, Phase 1
Part of Lots 27 & 28, Concession 12, Wards 4, 5 and 6
Ottawa City, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

storm and sanitary sewers to be constructed in the City of Ottawa, on Huntmar Road, Maple Grove Road, Harmattan Avenue, Kohilo Crescent, Tramontana Drive, Rosehill Avenue, Helm Circle, Sonesta Crescent, and trunk storms sewers on Maple Grove Road, all in accordance with the application from 1591246 Ontario Limited, dated July 14, 2006 including final plans and specifications prepared by Stantec Consulting Ltd.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal

The Director
Section 53, Ontario Water Resources Act

2300 Yonge St., Suite 1700
P.O. Box 2382
Toronto, Ontario
M4P 1E4

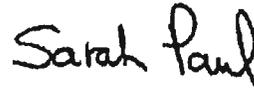
AND

Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 4th day of August, 2006



Sarah Paul, P.Eng.

Director

Section 53, *Ontario Water Resources Act*

GG/

c: District Manager, MOE Ottawa District Office
R. L. Phillips, C. E. T. Program Manager, Infrastructure and Approvals
Pierre Page, City of Ottawa
T. Wilkie, Stantec Consulting Ltd.

INCIDENT REPORT

Reference Number:	1521-8L9MTU	File Storage Number:	SI
Module:	Incident Reporting	Module Type:	Other
Cross Reference:	(doc link)	Task Link:	6846-8L9MW9 
Originating Document:		Created by:	Tracy Hart
Incident Report Reference Number:		1521-8L9MTU	
Date Created:	2011/08/31	Date Completed:	
Bring Forward Date:		Bring Forward Reason:	
Status:	Assigned	Activity:	General (No related specific activity)
Program	Sewage - Municipal/Private and commercial		

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

Yes No To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:

First Name Last Name
21

Name of Company:

Contact Mailing Address

Civic Address:

Unit Identifier:

Delivery Designator:

Delivery Identifier:

Municipality:

Postal Station:

Province/State:

Postal Code:

Renfrew

Ontario

Telephone Number:

Extension:

Other Number:

Email Address:

Fax

Reported By:

MOE Information

Date & Time Reported to MOE: 2011/06/23 00:51

Office Receiving Incident Report: Ottawa District Office

Incident Info Received By: Tracy Hart

MOE Response:

Site Region:

Eastern

Date & Time of MOE Arrival

at Scene:

Master Incident Report
Number:

SAC Action Class:

Non-Standard Procedure: No

ERP Call-out Initiated:

Client(s)

Information

Show Map

Site(s)

Information

Show Map

Kanata West Subdivision <UNOFFICIAL>

Address: Lot: , Part: , Ottawa, City,

District Office: Ottawa

GeoReference: Map Datum: , Accuracy Estimate: , UTM Easting: , UTM Location Description: ,

LIO GeoReference: Zone: , UTM Easting: , UTM Northing: , Latitude: , Longitude:

Incident Information

Incident Summary:

Kanata West Subdivision
cannot be longer than 60 characters

Incident Description:

an email was sent to the misntry regarding concerns with Kanata West Development:

From: 21

Sent: June 23, 2011 12:51 AM

To: Sudds, AI (ENE)

Cc: Campney, Gayla (ENE); commissioner@eco.on.ca

Subject: Request for Investigation and Enforcement of apparent contraventions of Section 98(2) of OWRA
Importance: High

Mr. Allan Sudds
Supervisor - Eastern Region
Unit 3
1259 Gardiners Rd
Kingston ON K7P3J6

June 24, 2011

Request for investigation of Contravention of Section 98(2) of the OWRA
Riotrin Properties (Hazeldean) Inc. & City of Ottawa

Dear Mr. Sudds,

The purpose of this submission is to request MOE to investigate and pursue enforcement of an apparent contravention of Section 98(2) of the Ontario Water Resources Act arising from what appears to be false statements in the April 2008 application for approval of Municipal and Private Sewage Works, Design Brief, Hazeldean Tributary Realignment in the City of Ottawa by Riotrin Properties (Hazeldean) Inc. that resulted in the December 15, 2008 Certificate of Approval Number 2627-7JDHDQ [Attachment 1] being issued.

According to the opening paragraph in the C of A:

"You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of: relocation and realignment of the existing Hazeldean Tributary of Carp River located in Shenkman Corporation property within the former Township of Goulburn, City of Ottawa...." [underlining is my emphasis].

On December 27, 2007 I filed an Appeal to the Ontario Municipal Board of the City of Ottawa's Draft Plan

Approval of the Richcraft Plan of Subdivision in Kanata West (1560, 1620 and 1636 Maple Grove Road) [Attachment 2]. This Appeal is still open, and a couple of weeks ago I met with City Counsel and Richcraft's Counsel about the Appeal.

Attachment 3 is an excerpt from the July 2010 Kanata West Implementation Plan that shows the location of the Richcraft Plan of Subdivision and the Trinity (Riotrin Properties (Hazeldean) Inc.) development that has been built on the Shenkman Corporation property. Attachment 4 shows the location of the Hazeldean Tributary Realignment, in particular, Section 3 referenced in the C of A - Open Channel Realignment (0+040 to 0+420) - that is located on the Shenkman Corporation property, and Section 4 referenced in the C of A - Naturalized Channel Realignment (0+420 to 1+164m and match the existing natural channel to the Carp River Outfall) - that is located on the Richcraft Plan of Subdivision.

Conditions 12 and 93 of the City of Ottawa's December 2007 Draft Plan Approval of the Richcraft Subdivision [Attachment 5] state:

12. Prior to the commencement of construction, all requests for a Part II Order under the Environmental Assessment Act on projects directly related to the development shall be resolved.

93. Prior to registration, or prior to an application for a Ministry of Environment Certificate of Approval for any stormwater works (whichever comes first), the Owner shall prepare a Stormwater Site Management Plan in accordance with the Conceptual Stormwater Site Management Plan, the Carp River Watershed/Subwatershed Study (2004), the Kanata West Master Servicing Study (June 2006), the Carp River, Poole Creek and Feedmill Creek Restoration Plan Class Environmental Assessment (June 2006) and the Kanata West Road Network Environmental Study Report (June 2006). The Stormwater Site Management Plan shall identify the sequence of its implementation in relation to the construction of the subdivision and shall be to the satisfaction of the Director, Planning Branch and Mississippi Valley Conservation.

I submit there are a number of facts that support an allegation that false statements were made in the April 2008 application filed on behalf of Riotrin Properties (Hazeldean) Inc.:

1. Section 4 of the works is not located on the Shenkman Corporation property;
2. Section 4 of the works is located on Blocks 5, 18, 69, 70, 71 and Streets 1 and 6 of the Richcraft Draft Plan of Subdivision that has been Appealed to the OMB [Attachment 6];
3. Construction of the Section 4 works was not supposed to occur until the Part II Order Requests were resolved - which turned out to be March 30, 2011 (although it should be noted my Appeal of the Draft Plan Approval is still outstanding); and
4. The C of A issued on December 15, 2008 for sewage works in Section 4 of the Hazeldean Tributary relocation and realignment project located on the Richcraft Draft Plan of Subdivision makes no reference to the Stormwater Site Management Plan required by Draft Plan Condition 93. Furthermore, in consideration of the fact that the same engineering consultant (Stantec) is under contract with both Richcraft and Riotrin for land development engineering services at both development sites, a reasonable minded person would think the false statement about property ownership in the April 2008 C of A Application was made knowingly.

I also observe from the December 15, 2008 C of A that the City of Ottawa's Clerk's Office received a copy of the C of A that includes reference to works to be undertaken in Sections 3 and 4 of the realignment and relocation project. Nearly one year earlier the Clerk's Office received my OMB Appeal that applies to the Section 4 realignment and relocation work.

To relocate and realign the Hazeldean Tributary required completion of both Sections 3 and 4 referred to in the C of A. While Riotrin was constructing its development site along Hazeldean Road, the City of Ottawa was undertaking a \$65 Million construction project involving the widening of Hazeldean Road that required an outlet for drainage in the vicinity of the Hazeldean Tributary. The permanent outlet for drainage from Hazeldean Road in this area is to be to storm sewers draining to Stormwater Management Pond P5 located on the Richcraft Plan of Subdivision. When the work on Hazeldean Road was underway, there were unresolved Part II Order Requests on SWM Pond P5 that were delaying its construction.

The City applied for, and received a C of A on January 4, 2010 (C of A Number 2869-7XMQ68) for construction of interim stormwater management works to control runoff from the Hazeldean Road Widening project [Attachment 7]. The interim SWM works outlet to the Hazeldean Tributary, and as stated in the C of A "will be in use until the P5 stormwater facility and the storm trunk sewer are constructed, at which time the interim facility will be decommissioned."

The air photo in Attachment 4 that shows the Hazeldean tributary realignment having been constructed on the Richcraft property dates from 2008. Clearly the City of Ottawa would have known on January 4, 2010, when it received the C of A for the interim SWM works that outlet to the Hazeldean Tributary, that the drainage from the Hazeldean Road Widening project would be conveyed along Section 4 of the sewage works constructed on the Richcraft property.

According to the City's Draft Plan Conditions for the Richcraft Plan of Subdivision, a Stormwater Site

Management Plan was supposed to have been prepared before any application for a C of A was filed with the MOE. Furthermore, no construction on the Richcraft development could take place until the Part II Order Requests were resolved. How can the C of A issued to the City on January 4, 2010, that relies on drainage being conveyed through Section 4 of the Hazeldean Tributary realignment and relocation work be legal if it has to rely on works that have been constructed in contravention of Conditions of Draft Plan Approval that the City itself set? - Involving a Draft Plan of Subdivision that has an outstanding Appeal to the Ontario Municipal Board?

Construction of the Hazeldean tributary on the Richcraft subdivision has proceeded on the basis of an application that contains false statements. One of my concerns with the Richcraft Plan of subdivision is the design and configuration of SWM Pond 5 and its trunk storm sewers that includes sewers 8' in diameter that are completely submerged. Because the design of the storm drainage system on the Richcraft property is such that there is only one outlet to SWM Pond P5 that outlets to the Carp River - rather than to additional outlets available at Poole Creek and the Hazeldean Tributary - the invert of the storm sewers that outlet to SWM Pond P5 are actually 4' below the bed of the Carp River. Sewers with this amount of submergence will be problematic to maintain, and could be prone to excessive surcharging creating risks of basement flooding.

One of the points I am planning to raise in my appeal to the OMB has to do with the failure to consider other storm water management plans that would include outlets to Poole Creek and the Hazeldean Tributary to reduce the severity and extent of submerged sewers. The fact that the Hazeldean tributary has been constructed - supposedly under the authority of a C of A issued by the MOE - undermines my Appeal.

I submit the Cs of A in Attachments 1 and 7 issued by MOE appear to be based on documentation containing false and misleading information that is in contravention of Section 98(2) of the OWRA. I hereby request MOE to initiate a prompt investigation of these matters, and to keep me informed of your progress.

Sincerely,

Links & Comments:

Attachments Names:

Date & Time of Incident

Incident Date Confirmation? Actual
2011/06/23

Source Type:

Sector Type:

Nearest Watercourse:

Watershed Category Code:

Environmental Impact:

Nature of Impact:

Incident Cause:

Incident Reason:

Damaged Party:

No

Contaminants Table

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

Controller of Material:

Owner of Material:

Estimated Clean Up Cost:

Who Cleaned Up:

% Clean Up:

%

Agencies Involved:

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?

Yes

No

To be determined

Voluntary / Mandatory Compliance Items

Type Parent RefNo Work Summary (may be truncated)

Date

AttainList

Offence(s)

Suspected Violation(s)/Offence(s):

Act - Regulation - Section,
Description
(General Offence)

Provincial Officer:

Name:

Badge No:

Work Unit:

District/Area Office:

Date:

Signature:

District/Area Supervisor:

Name:

Work Unit:

District/Area Office:

Date:

Signature:


RE: Records Search for PE3036

From Public Information Services <publicinformationsservices@tssa.org>
 Date Thu 4/17/2025 9:03 AM
 To Mohammed Ramadan <MRamadan@patersongroup.ca>

External Email: Do not click on links or open attachments unless you trust the sender.

RECORD FOUND IN CURRENT DATABASE

Hello,

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

- We confirm that there are records in our current database of any fuel storage tanks at the subject address(es).

Inventory Number	Address	City	Province	Postal Code	Reason Code	Asset Type / Inventory Item
11112239	1655 MAPLE GROVE RD	KANATA	ON	K2V 1B7	EXPIRED	FS LIQUID FUEL TANK
11112268	1655 MAPLE GROVE RD	KANATA	ON	K2V 1B7	EXPIRED	FS LIQUID FUEL TANK
60508339	1655 MAPLE GROVE RD	KANATA	ON	K2V 1B7	Active	FS LIQUID FUEL TANK
60508340	1655 MAPLE GROVE RD	KANATA	ON	K2V 1B7	Active	FS LIQUID FUEL TANK
60508341	1655 MAPLE GROVE RD	KANATA	ON	K2V 1B7	Active	FS LIQUID FUEL TANK
9918536	1655 MAPLE GROVE RD	KANATA	ON	K2V 1B7	Active	FS PRIVATE FUEL OUTLET - SELF SERVE

This is not a confirmation that there are no records in the archives. For a further search in our archives, please go to the [TSSA Client Portal](#) to complete an Application for Release of Public Information.

Please refer to [How to Submit a Public Information Request \(tssa.org\)](#) for instructions.

The associated fee must be paid via credit card (Visa or MasterCard).

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

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

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationsservices@tssa.org.

Kind regards,

Kimberly Gage | Public Information & Records Agent

Public Information
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 Tel: +1 416-734-3581 | Fax: +1 416-734-3568 | E-Mail: kgage@tssa.org
www.tssa.org





Winner of 2024 5-Star Safety Cultures Award

From: Mohammed Ramadan
<MRamadan@patersongroup.ca>

Sent: April 16, 2025 2:51 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Records Search for PE3036

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

Good Afternoon,

Could you please complete a search of your records for underground/aboveground storage tanks for the following address in **Ottawa, Ontario**:

Roger Griffiths Avenue: 815
Maple Grove Road: 1590, 1625, 1635, 1655
Maize Street: 50
Ploughshare Road: 70, 118

Regards,



MOHAMMED RAMADAN, B.Sc.
Environmental Inspector

TEL: (613) 226-7381 ext. 345
DIRECT: (613) 909-8069

9 AURIGA DRIVE
OTTAWA ON K2E 7T9

patersongroup.ca

TEMPORARY SHORING DESIGN SERVICES ARE NOW AVAILABLE, PLEASE CONTACT US TO SEE HOW WE CAN HELP!

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File Number: C10-01-13-0166

August 1, 2013

Adrian Menyhart
Paterson Group Inc.
154 Colonnade Road South
Ottawa, ON K2E 7J5

Sent via email [AMenyhart@patersongroup.ca]

Dear Mr. Menyhart,

**Re: Information Request – PE3063
1620 Maple Grove Road, Ottawa, Ontario (“Subject Property”)**

Internal Department Circulation

The Planning and Growth Management Department has the following information in response to your request for information regarding the Subject Property:

- The Solid Waste Services Branch notes that the Subject Property is within 5 km of 2 waste management facilities located at 106 Westhunt Road and 2301 Carp Road.

Search of Historical Land Use Inventory

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

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Property.

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

- There are 3 activities associated with properties located within 50m of the Subject Property: Activity Numbers 10316, 2675 & 8699.

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Infrastructure Services and Community
Sustainability Department
Planning and Growth Management Branch

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

Ville d'Ottawa
Services d'infrastructure et Viabilité des
collectivités
Direction de l'approbation des demandes
d'aménagement et d'infrastructure

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

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

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

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

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

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

Sincerely,



for David Wise, MUP, MCIP, RPP
Program Manager
Development Review (Suburban Services) - West
Planning and Growth Management Department

DW/DH

Attach: 4

cc: File no. C10-01-13-0166



CITY OF OTTAWA

HLUI ID: __670HJY

AREA (Square Metres): 66568.402

Report: RPTC_OT_DEV0122

Run On: 16 Jul 2013 at: 16:09:38

Study Year
1998

PIN
045090022

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 10316 **Multiple PINS:** N

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

Related PINS: 045090022

Name: OTTAWA CITY

Address: 1635 MAPLE GROVE ROAD, KANATA

Facility Type: Motor Vehicle Repair Shops

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Property Assessment

NAICS	SIC
811112	0
811111	0
811199	0
811121	0
811119	0

Company Name

OTTAWA CITY

Year of Operation

c. 2005



CITY OF OTTAWA

HLUI ID: __670HJY

AREA (Square Metres): 66568.402

Report: RPTC_OT_DEV0122

Run On: 16 Jul 2013 at: 16:09:38

Study Year
1998

PIN
045090022

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 8699 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 045090022

Name: MUN-WORKS

Address: 1635 MAPLE GROVE ROAD, KANATA

Facility Type: General Administrative Services

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

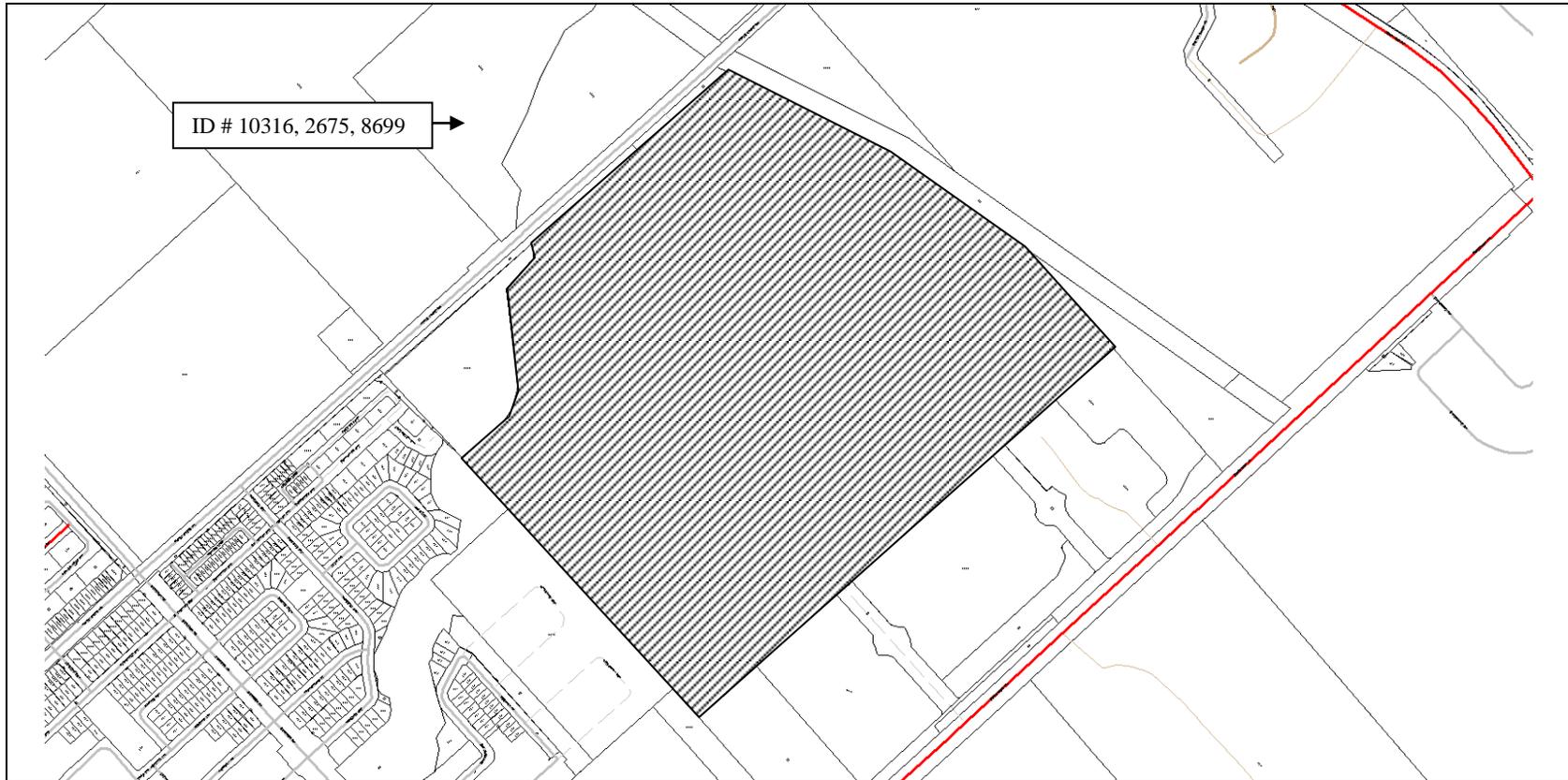
NAICS	SIC
913910	0

Company Name

MUN-WORKS

Year of Operation

c. 2001



Scale 1: n/a

1620 Maple Grove Road
Ottawa, ON
File # C10-01-13-0166
Dilys Huang



ID# = Activity Identification Number

 = Subject Site

Overview



DATABASE REPORT

Project Property: *Phase I ESA
Kanata West - Block 1
Ottawa ON K2S
P.O. 62797/PE3063*

Project No: *P.O. 62797/PE3063*

Report Type: *Standard Report*

Order No: *25040700237*

Requested by: *Paterson Group Inc.*

Date Completed: *April 7, 2025*

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property: *Phase I ESA
Kanata West - Block 1 Ottawa ON K2S*

Project No: *P.O. 62797/PE3063*

Coordinates:

Latitude: *45.2923254*
Longitude: *-75.9112331*
UTM Northing: *5,015,828.72*
UTM Easting: *428,547.05*
UTM Zone: *18T*

Elevation: *321 FT
97.88 M*

Order Information:

Order No: *25040700237*
Date Requested: *April 7, 2025*
Requested by: *Paterson Group Inc.*
Report Type: *Standard Report*

Historical/Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	1	1
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	5	5
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	1	1
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPR2	<i>National Pollutant Release Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory - Historic</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PFAS	<i>Ontario PFAS Spills</i>	Y	0	0	0
PFCH	<i>NPRI Reporters - PFAS Substances</i>	Y	0	0	0
PFHA	<i>Potential PFAS Handlers from NPRI</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PPHA	<i>Potential PFAS Handlers from EASR</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	1	1
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	4	4
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	4	4

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
		<hr/>			
		Total:	0	16	16

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	---------------------	--------------------------	------------------------

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	EHS		PE3063 - Northwest section of 1620 Maple Grove Rd. Kanata ON K2V 1B7	WSW/135.8	1.00	16
2	WWIS		MAPLE GROVE lot 28 con 12 KANATA ON Well ID: 7257399	WNW/174.1	0.00	16
3	ECA	Richcraft Homes Ltd.	1620 Maple Grove Rd Ottawa ON K1G 4K1	ESE/176.5	0.00	23
3	PTTW	Richcraft Homes Ltd.	1620 Maple Grove Road Ottawa, ON K2V 1B7 Canada ON	ESE/176.5	0.00	23
3	ECA	Richcraft Homes Ltd.	1620 Maple Grove Rd Ottawa ON K1G 4K1	ESE/176.5	0.00	24
3	ECA	Richcraft Homes Ltd.	1620 Maple Grove Rd Ottawa ON K1G 4K1	ESE/176.5	0.00	24
4	WWIS		MAPLE GROVE lot 28 con 12 KANATA ON Well ID: 7257400	NNE/180.6	-1.00	24
5	WWIS		1590 MAPLE GROVE RD lot 29 con 12 KANATA ON Well ID: 7304941	NNE/180.9	-1.00	31
6	SPL	Taggart Construction Limited	1629 Maple Grove Rd, Kanata Ottawa ON	NW/196.0	-1.00	33
7	WWIS		1625 Maple Grove Road lot 1 con 1 Kanata ON Well ID: 7412656	NW/202.6	-1.00	34
8	SPL	Taggart Construction Limited	1625 Maple Grove Rd. Ottawa ON	NW/219.6	-1.00	37
8	EASR	Roadrig Inc.	1625 MAPLE GROVE RD KANATA ON K2V 1B7	NW/219.6	-1.00	38

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>9</u>	ECA	City of Ottawa	1590 Maple Grove Rd Ottawa ON K2G 6J8	N/221.7	-1.00	<u>38</u>
<u>9</u>	ECA	City of Ottawa	1590 Maple Grove Rd Ottawa ON K2G 6J8	N/221.7	-1.00	<u>38</u>
<u>9</u>	SPL	City of Ottawa	1590 Maple Grove Rd Ottawa ON NA	N/221.7	-1.00	<u>39</u>
<u>9</u>	SPL	Robert Pickard Env Centre Water Pollution Control Plant	1590 Maple Grove Rd Kanata, ON K2V 1B7 OTTAWA ON	N/221.7	-1.00	<u>40</u>

Executive Summary: Summary By Data Source

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Feb 28, 2025 has found that there are 1 EASR site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Roadrig Inc.	1625 MAPLE GROVE RD KANATA ON K2V 1B7	NW	219.56	<u>8</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Feb 28, 2025 has found that there are 5 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Richcraft Homes Ltd.	1620 Maple Grove Rd Ottawa ON K1G 4K1	ESE	176.51	<u>3</u>
Richcraft Homes Ltd.	1620 Maple Grove Rd Ottawa ON K1G 4K1	ESE	176.51	<u>3</u>
Richcraft Homes Ltd.	1620 Maple Grove Rd Ottawa ON K1G 4K1	ESE	176.51	<u>3</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	1590 Maple Grove Rd Ottawa ON K2G 6J8	N	221.66	<u>9</u>
City of Ottawa	1590 Maple Grove Rd Ottawa ON K2G 6J8	N	221.66	<u>9</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 31, 2024 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	PE3063 - Northwest section of 1620 Maple Grove Rd. Kanata ON K2V 1B7	WSW	135.77	1

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994 - Feb 28, 2025 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Richcraft Homes Ltd.	1620 Maple Grove Road Ottawa, ON K2V 1B7 Canada ON	ESE	176.51	3

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2024; Aug-Jan 2025 has found that there are 4 SPL site(s) within approximately 0.25 kilometers of the project property.

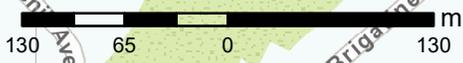
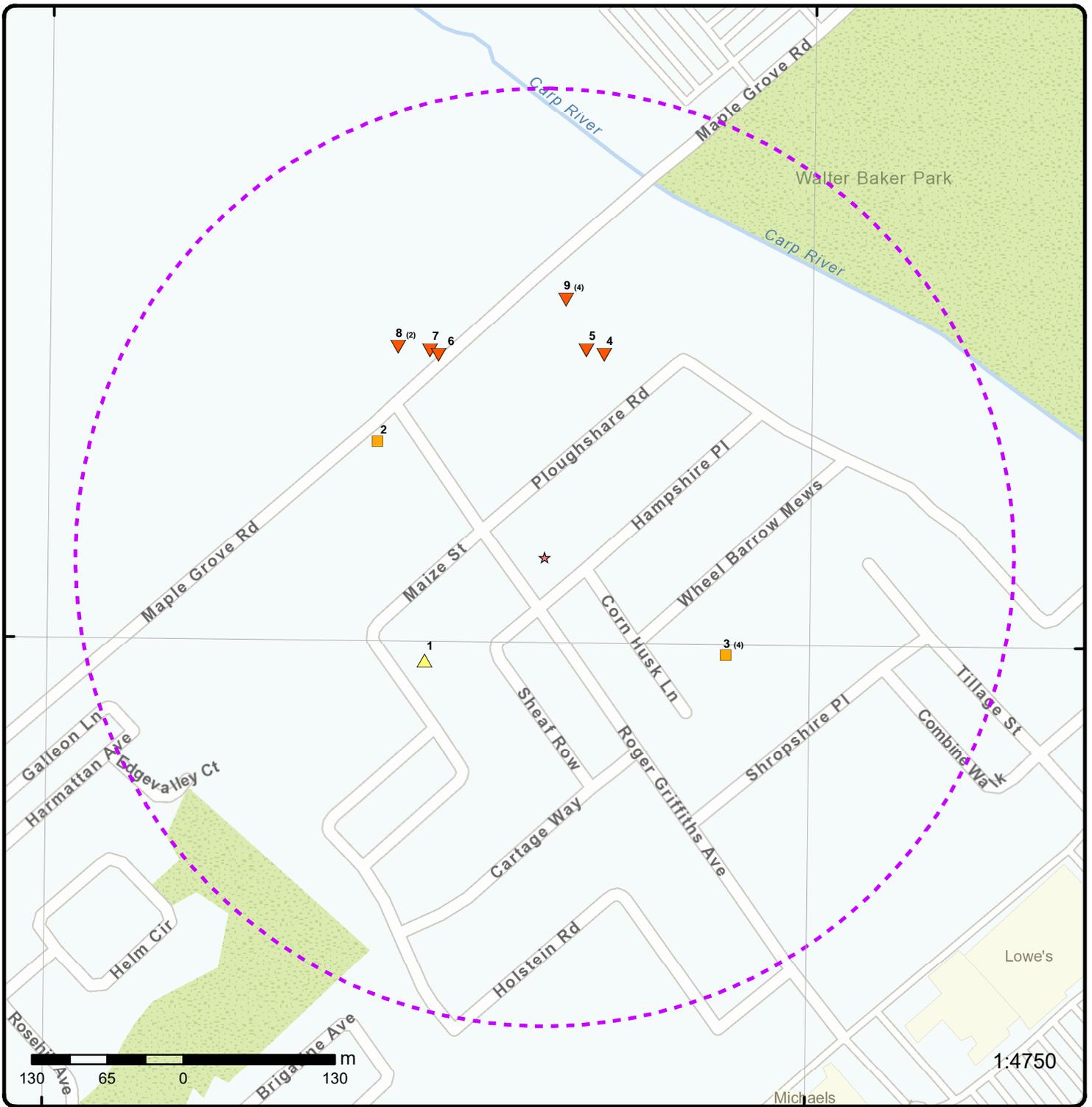
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Taggart Construction Limited	1629 Maple Grove Rd, Kanata Ottawa ON	NW	195.99	6
Taggart Construction Limited	1625 Maple Grove Rd. Ottawa ON	NW	219.56	8
City of Ottawa	1590 Maple Grove Rd Ottawa ON NA	N	221.66	9
Robert Pickard Env Centre Water Pollution Control Plant	1590 Maple Grove Rd Kanata, ON K2V 1B7 OTTAWA ON	N	221.66	9

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31 2023 has found that there are 4 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	MAPLE GROVE lot 28 con 12 KANATA ON <i>Well ID: 7257399</i>	WNW	174.13	2

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	MAPLE GROVE lot 28 con 12 KANATA ON <i>Well ID:</i> 7257400	NNE	180.62	<u>4</u>
	1590 MAPLE GROVE RD lot 29 con 12 KANATA ON <i>Well ID:</i> 7304941	NNE	180.89	<u>5</u>
	1625 Maple Grove Road lot 1 con 1 Kanata ON <i>Well ID:</i> 7412656	NW	202.59	<u>7</u>



1:4750

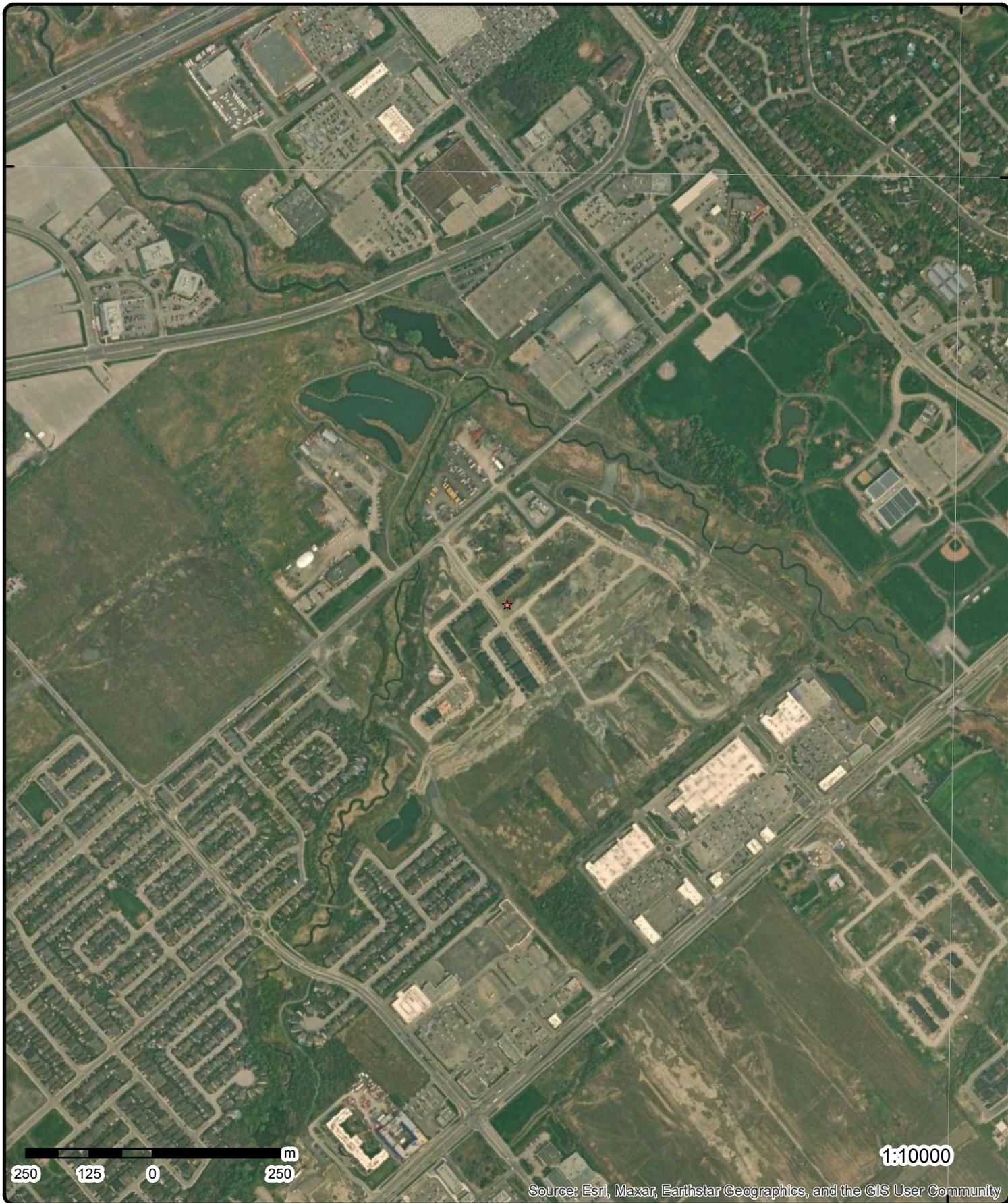
Map: 0.25 Kilometer Radius

Order Number: 25040700237

Address: Kanata West - Block 1, Ottawa, ON



★ Project Property	Freeways; Highways	Beach	Shopping & Sports Area
⬡ Buffer Outline	Traffic Circle; Ramp	Airport	University/College
▲ Eris Sites with Higher Elevation	Major Arterial; Minor Arterial	Industrial Area	Cemetery; Golf Course
■ Eris Sites with Same Elevation	Local Road	Military Base	Park (National)
▼ Eris Sites with Lower Elevation	Service Road; Traffic Circle; Ramp	Aircraft Roads	Park (City/County)
○ Eris Sites with Unknown Elevation	Rail	Native Reservation	
		Hospital	



Aerial Year: 2023

Order Number: 25040700237

Address: Kanata West - Block 1, Ottawa, ON



Source: ESRI World Imagery

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75°55'30"W

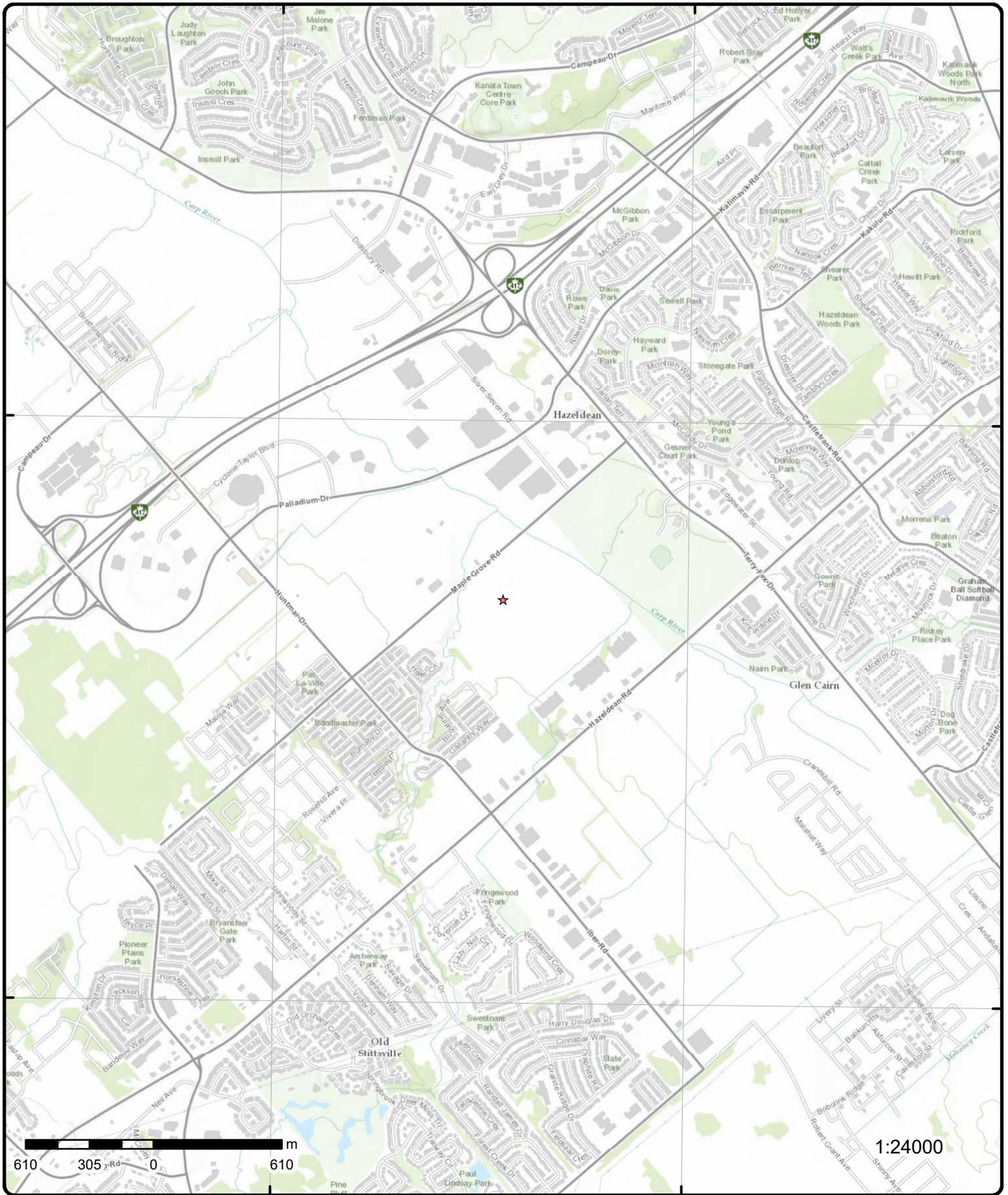
75°54"W

45°18'N

45°18'N

45°16'30"N

45°16'30"N



Topographic Map

Order Number: 25040700237

Address: Kanata West - Block 1, ON



Source: ESRI World Topographic Map

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	WSW/135.8	98.9 / 1.00	PE3063 - Northwest section of 1620 Maple Grove Rd. Kanata ON K2V 1B7	EHS
Order No: 20200617077 Status: C Report Type: Standard Report Report Date: 22-JUN-20 Date Received: 17-JUN-20 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.9125338 Y: 45.2915188			

<u>2</u>	1 of 1	WNW/174.1	97.9 / 0.00	MAPLE GROVE lot 28 con 12 KANATA ON	WWIS
Well ID: 7257399 Construction Date: Use 1st: Test Hole Use 2nd: Final Well Status: Monitoring and Test Hole Water Type: Casing Material: Audit No: Z220168 Tag: A192929 Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: GOULBOURN TOWNSHIP Site Info: KANATA WEST PUMP STN		Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: 02/05/2016 Selected Flag: TRUE Abandonment Rec: Contractor: 4875 Form Version: 7 Owner: County: OTTAWA-CARLETON Lot: 028 Concession: 12 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:			
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7257257399.pdf			

Additional Detail(s) (Map)

Well Completed Date: 01/21/2016
Year Completed: 2016
Depth (m): 18.61
Latitude: 45.2932044069098
Longitude: -75.9130715353326
X: -75.9130713737422
Y: 45.293204400361475
Path: 725\7257399.pdf

Bore Hole Information

Bore Hole ID: 1005880748 **Elevation:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	428404.00
Code OB Desc:				North83:	5015928.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	01/21/2016			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Location Method Desc:		on Water Well Record			
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID: 1005969671
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 9.149999618530273
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID: 1005969674
Layer: 4
Color: 2
General Color: GREY
Material 1: 28
Material 1 Desc: SAND
Material 2: 29
Material 2 Desc: FINE GRAVEL
Material 3: 10
Material 3 Desc: COARSE SAND
Formation Top Depth: 15.859999656677246
Formation End Depth: 18.610000610351562
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID: 1005969673
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:		11.899999618530273			
Formation End Depth:		15.859999656677246			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005969675			
Layer:		5			
Color:		2			
General Color:		GREY			
Material 1:		15			
Material 1 Desc:		LIMESTONE			
Material 2:					
Material 2 Desc:					
Material 3:					
Material 3 Desc:					
Formation Top Depth:		18.610000610351562			
Formation End Depth:		18.610000610351562			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005969672			
Layer:		2			
Color:		2			
General Color:		GREY			
Material 1:		05			
Material 1 Desc:		CLAY			
Material 2:					
Material 2 Desc:					
Material 3:		73			
Material 3 Desc:		HARD			
Formation Top Depth:		9.149999618530273			
Formation End Depth:		11.899999618530273			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005969708			
Layer:		1			
Plug From:		0.0			
Plug To:		6.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005969707			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005969669			
Casing No:		0			
Comment:					
Alt Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Construction Record - Casing

Casing ID: 1005969678
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.6000000238418579
Depth To: 17.389999389648438
Casing Diameter: 15.880000114440918
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1005969679
Layer: 1
Slot: 20
Screen Top Depth: 17.389999389648438
Screen End Depth: 18.610000610351562
Screen Material: 8
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 13.970000267028809

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1005969670
Pump Set At: 16.799999237060547
Static Level: 1.5399999618530273
Final Level After Pumping: 4.690000057220459
Recommended Pump Depth: 15.300000190734863
Pumping Rate: 22.0
Flowing Rate:
Recommended Pump Rate: 45.0
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1005969680
Test Type: Draw Down
Test Duration: 1
Test Level: 2.799999952316284
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1005969683
Test Type: Recovery
Test Duration: 2
Test Level: 3.130000114440918
Test Level UOM: m

Draw Down & Recovery

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		1005969686			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		3.9800000190734863			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969695			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		1.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969698			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		4.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969682			
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		3.2699999809265137			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969691			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		1.850000023841858			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969696			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		4.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969697			
Test Type:		Recovery			
Test Duration:		25			
Test Level:		1.659999966621399			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969704			
Test Type:		Draw Down			
Test Duration:		60			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level:		4.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969705			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		1.600000023841858			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969681			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		3.700000047683716			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969684			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		3.700000047683716			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969685			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		2.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969688			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		4.150000095367432			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969694			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		4.679999828338623			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969692			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		4.659999847412109			
Test Level UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969701			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		1.6200000047683716			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969702			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		4.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969703			
Test Type:		Recovery			
Test Duration:		50			
Test Level:		1.6100000143051147			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969690			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		4.570000171661377			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969693			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		1.7400000095367432			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969700			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		4.690000057220459			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969687			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		2.4700000286102295			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969689			
Test Type:		Recovery			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		5			
Test Level:		2.2699999809265137			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969699			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		1.6399999856948853			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		1005969677			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		17.0			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005969676			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>3</u>	1 of 4	ESE/176.5	97.9 / 0.00	Richcraft Homes Ltd. 1620 Maple Grove Rd Ottawa ON K1G 4K1	ECA
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Approval No:	0855-BFXPDL	MOE District:	
Approval Date:	2019-09-24	City:	
Status:	Revoked and/or Replaced	Longitude:	
Record Type:	ECA	Latitude:	
Link Source:	IDS	Geometry X:	
SWP Area Name:		Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Richcraft Homes Ltd.		
Address:	1620 Maple Grove Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8260-BFQRF-14.pdf		
PDF Site Location:			

<u>3</u>	2 of 4	ESE/176.5	97.9 / 0.00	Richcraft Homes Ltd. 1620 Maple Grove Road Ottawa, ON K2V 1B7 Canada ON	PTTW
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EBR Registry No:	019-0832	Decision Posted:	March 27, 2020
Ministry Ref No:	3153-BHHJJV	Exception Posted:	
Notice Type:	Instrument	Section:	Section 34
Notice Stage:	Decision	Act 1:	Ontario Water Resources Act, R.S.O. 1990
Notice Date:		Act 2:	Ontario Water Resources Act
Proposal Date:	November 5, 2019	Site Location Map:	45.291584,-75.909242
Year:	2019		
Instrument Type:	Permit to take water		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Off Instrument Name: Permit to Take Water (OWRA s. 34) Posted By: Ministry of the Environment, Conservation and Parks Company Name: Site Address: 1620 Maple Grove Road Ottawa, ON K2V 1B7 Canada Location Other: Proponent Name: Richcraft Homes Ltd. Proponent Address: 2280 St. Laurent Boulevard Suite 201 Ottawa, ON K1G 4K1 Canada Comment Period: November 5, 2019 - December 5, 2019 (30 days) Closed URL: https://ero.ontario.ca/notice/019-0832 Summary:					
Site Location Details:					
<u>3</u>	3 of 4	ESE/176.5	97.9 / 0.00	Richcraft Homes Ltd. 1620 Maple Grove Rd Ottawa ON K1G 4K1	ECA
Approval No: 9666-BMRG9Z Approval Date: 2020-04-01 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Richcraft Homes Ltd. Address: 1620 Maple Grove Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8163-BMFR5S-13.pdf PDF Site Location:					
<u>3</u>	4 of 4	ESE/176.5	97.9 / 0.00	Richcraft Homes Ltd. 1620 Maple Grove Rd Ottawa ON K1G 4K1	ECA
Approval No: 5770-CL6SLG Approval Date: November 23, 2022 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Richcraft Homes Ltd. Address: 1620 Maple Grove Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4575-CKUKR8-14.pdf PDF Site Location: Kanata West Subdivision 1620 Maple Grove Road City of Ottawa, Ontario					
<u>4</u>	1 of 1	NNE/180.6	96.9 / -1.00	MAPLE GROVE lot 28 con 12 KANATA ON	WWIS
Well ID: 7257400 Construction Date: Use 1st: Test Hole Use 2nd: Final Well Status: Monitoring and Test Hole Water Type:					
Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: 02/05/2016 Selected Flag: TRUE					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Material:				Abandonment Rec:	
Audit No:	Z220169			Contractor:	4875
Tag:	A166307			Form Version:	7
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA-CARLETON
Elevatn Reliabilty:				Lot:	028
Depth to Bedrock:				Concession:	12
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:		GOULBOURN TOWNSHIP			
Site Info:		KANATA WEST PUMP STN			
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/725\7257400.pdf			

Additional Detail(s) (Map)

Well Completed Date: 01/08/2016
Year Completed: 2016
Depth (m): 26.98
Latitude: 45.2938901817375
Longitude: -75.910608406147
X: -75.91060824519353
Y: 45.29389017540323
Path: 725\7257400.pdf

Bore Hole Information

Bore Hole ID:	1005880763	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	428598.00
Code OB Desc:		North83:	5016002.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	01/08/2016	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 1005969748
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.670000076293945
Formation End Depth UOM: m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1005969750			
Layer:		3			
Color:		2			
General Color:		GREY			
Material 1:		15			
Material 1 Desc:		LIMESTONE			
Material 2:					
Material 2 Desc:					
Material 3:					
Material 3 Desc:					
Formation Top Depth:		20.280000686645508			
Formation End Depth:		26.979999542236328			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1005969749			
Layer:		2			
Color:		2			
General Color:		GREY			
Material 1:		34			
Material 1 Desc:		TILL			
Material 2:		05			
Material 2 Desc:		CLAY			
Material 3:					
Material 3 Desc:					
Formation Top Depth:		19.670000076293945			
Formation End Depth:		20.280000686645508			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1005969780			
Layer:		1			
Plug From:		0.0			
Plug To:		6.0			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1005969779			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005969746			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		1005969754			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-1.0399999618530273			
Depth To:		20.459999084472656			
Casing Diameter:		15.880000114440918			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1005969755			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:		1005969747			
Pump Set At:		27.649999618530273			
Static Level:		0.25999999046325684			
Final Level After Pumping:		27.649999618530273			
Recommended Pump Depth:					
Pumping Rate:		18.600000381469727			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		0			
Pumping Duration HR:		0			
Pumping Duration MIN:		29			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969759			
Test Type:		Draw Down			
Test Duration:		3			
Test Level:		3.9200000762939453			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969775			
Test Type:		Recovery			
Test Duration:		40			
Test Level:		17.020000457763672			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969756			
Test Type:		Recovery			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>			1		
<i>Test Level:</i>			27.0		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969762		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			4		
<i>Test Level:</i>			26.8799991607666		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969760		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			3		
<i>Test Level:</i>			26.40999984741211		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969763		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			5		
<i>Test Level:</i>			5.900000095367432		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969767		
<i>Test Type:</i>			Draw Down		
<i>Test Duration:</i>			15		
<i>Test Level:</i>			15.880000114440918		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969776		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			50		
<i>Test Level:</i>			15.15999984741211		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969758		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			2		
<i>Test Level:</i>			26.700000762939453		
<i>Test Level UOM:</i>			m		
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>			1005969768		
<i>Test Type:</i>			Recovery		
<i>Test Duration:</i>			15		
<i>Test Level:</i>			23.049999237060547		
<i>Test Level UOM:</i>			m		

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969769		
Test Type:			Draw Down		
Test Duration:			20		
Test Level:			20.3799991607666		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969770		
Test Type:			Recovery		
Test Duration:			20		
Test Level:			21.6200008392334		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969764		
Test Type:			Recovery		
Test Duration:			5		
Test Level:			25.780000686645508		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969771		
Test Type:			Draw Down		
Test Duration:			25		
Test Level:			24.549999237060547		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969772		
Test Type:			Recovery		
Test Duration:			25		
Test Level:			20.420000076293945		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969774		
Test Type:			Recovery		
Test Duration:			30		
Test Level:			19.190000534057617		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969777		
Test Type:			Recovery		
Test Duration:			60		
Test Level:			13.350000381469727		
Test Level UOM:			m		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			1005969757		

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Test Type:		Draw Down			
Test Duration:		2			
Test Level:		2.559999942779541			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969773			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		27.649999618530273			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969761			
Test Type:		Draw Down			
Test Duration:		4			
Test Level:		4.800000190734863			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969766			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		24.239999771118164			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		1005969765			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		11.300000190734863			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		1005969753			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		26.700000762939453			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005969752			
Diameter:		15.239999771118164			
Depth From:		20.459999084472656			
Depth To:		26.979999542236328			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1005969751			
Diameter:		15.880000114440918			
Depth From:		1.0399999618530273			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		20.459999084472656			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

5 1 of 1 NNE/180.9 96.9 / -1.00 1590 MAPLE GROVE RD lot 29 con 12 KANATA ON WWIS

Well ID:	7304941	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Not Used	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Abandoned-Other	Date Received:	02/06/2018
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	Yes
Audit No:	Z252102	Contractor:	4875
Tag:		Form Version:	7
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliabilty:		Lot:	029
Depth to Bedrock:		Concession:	12
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GOULBOURN TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/730\7304941.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/17/2017
Year Completed: 2017
Depth (m):
Latitude: 45.293924657775
Longitude: -75.9108002571202
X: -75.91080009562741
Y: 45.293924651415324
Path: 730\7304941.pdf

Bore Hole Information

Bore Hole ID:	1006980317	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	428583.00
Code OB Desc:		North83:	5016006.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	10/17/2017	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		1007125273			
Layer:					
Color:					
General Color:					
Material 1:					
Material 1 Desc:					
Material 2:					
Material 2 Desc:					
Material 3:					
Material 3 Desc:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1007125279			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1007125272			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1007125276			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1007125277			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1007125275			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1007125274			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>6</u>	1 of 1	NW/196.0	96.9 / -1.00	Taggart Construction Limited 1629 Maple Grove Rd, Kanata Ottawa ON	SPL
Ref No:	4863-AL6MA5			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	4/6/2017			Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	4/6/2017			Impact to Health:	2 - Minor Environment
Dt Document Closed:				Agency Involved:	
Site No:					
MOE Response:					
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Ottawa				
Nearest Watercourse:					
Site Name:	Location of sediment release<UNOFFICIAL>				
Site Address:	1629 Maple Grove Rd, Kanata				
Site Region:	Eastern				
Site Municipality:	Ottawa				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					
Site Map Datum:					
Northing:	5016012.77				
Easting:	428425.07				
Entity Operating Name:					
Client Name:	Taggart Construction Limited				
Client Type:	Corporation				
Source Type:	Other				
Incident Cause:					
Incident Preceding Spill:	Leak/Break				
Incident Reason:	Weather Conditions				
Incident Summary:	Taggart Construction: sediment release to Pool Creek				
Environment Impact:					
Health Env Consequence:					
Nature of Impact:					
Contaminant Qty:	0 other - see incident description				
Contaminant Qty 1:	0				
Contaminant Unit:	other - see incident description				
Contaminant Code:	41				
Contaminant Name:	WATER/SEDIMENT				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:	n/a				
Receiving Medium:	Surface Water				
Activity Preceding Spill:					
Property 2nd Watershed:					
Property Tertiary Watershed:					
Sector Type:	Miscellaneous Communal				
SAC Action Class:					
Call Report Locatn Geodata:					
Time Reported:					
System Facility Address:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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7	1 of 1	NW/202.6	96.9 / -1.00	1625 Maple Grove Road lot 1 con 1 Kanata ON	WWIS
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Well ID:	7412656	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Monitoring	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Observation Wells	Date Received:	03/03/2022
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	UGN7RMBM	Contractor:	7675
Tag:	A345826	Form Version:	9
Constructn Method:		Owner:	
Elevation (m):		County:	OTTAWA-CARLETON
Elevatn Reliability:		Lot:	001
Depth to Bedrock:		Concession:	01
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7412656.pdf

Additional Detail(s) (Map)

Well Completed Date:	02/16/2022
Year Completed:	2022
Depth (m):	6.096
Latitude:	45.2939110179504
Longitude:	-75.9125089777434
X:	-75.91250881649788
Y:	45.29391101174269
Path:	741\7412656.pdf

Bore Hole Information

Bore Hole ID:	1008967657	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	428449.00
Code OB Desc:		North83:	5016006.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	02/16/2022	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID:	1008967803
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		3			
Color:					
General Color:					
Material 1:		05			
Material 1 Desc:		CLAY			
Material 2:					
Material 2 Desc:					
Material 3:					
Material 3 Desc:					
Formation Top Depth:		12.0			
Formation End Depth:		20.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1008967801			
Layer:		1			
Color:					
General Color:					
Material 1:		11			
Material 1 Desc:		GRAVEL			
Material 2:					
Material 2 Desc:					
Material 3:		13			
Material 3 Desc:		BOULDERS			
Formation Top Depth:		0.0			
Formation End Depth:		5.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1008967802			
Layer:		2			
Color:		6			
General Color:		BROWN			
Material 1:		28			
Material 1 Desc:		SAND			
Material 2:					
Material 2 Desc:					
Material 3:					
Material 3 Desc:					
Formation Top Depth:		5.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1008967945			
Layer:		2			
Plug From:		14.0			
Plug To:		20.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1008967944			
Layer:		1			
Plug From:		0.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		14.0			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1008967894			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1008967723			
Method Construction Code:		E			
Method Construction:		Auger			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1008967698			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1008967828			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0.0			
Depth To:		15.0			
Casing Diameter:		2.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1008967849			
Layer:		1			
Slot:		10			
Screen Top Depth:		15.0			
Screen End Depth:		20.0			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.0			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:					
Pump Test ID:		1008967699			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<u>Water Details</u>					
Water ID:		1008967752			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		8.0			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1008967874			
Diameter:		8.0			
Depth From:		0.0			
Depth To:		20.0			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>8</u>	1 of 2	NW/219.6	96.9 / -1.00	Taggart Construction Limited 1625 Maple Grove Rd. Ottawa ON	SPL
Ref No:	5347-AK9S7C			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	3/8/2017			Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	3/8/2017			Impact to Health:	2 - Minor Environment
Dt Document Closed:				Agency Involved:	
Site No:					
MOE Response:					
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Ottawa				
Nearest Watercourse:					
Site Name:	Pump Installation Site<UNOFFICIAL>				
Site Address:	1625 Maple Grove Rd.				
Site Region:	Eastern				
Site Municipality:	Ottawa				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					
Site Map Datum:					
Northing:	5016101				
Easting:	428466				
Entity Operating Name:					
Client Name:	Taggart Construction Limited				
Client Type:	Corporation				
Source Type:	Unknown / N/A				
Incident Cause:					
Incident Preceding Spill:	Overflow/Surcharge				
Incident Reason:	Weather Conditions				
Incident Summary:	Taggart Construction: Sediment to Poole Creek, Contained and Cleaning				
Environment Impact:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Health Env Consequence:					
Nature of Impact:					
Contaminant Qty:	0 other - see incident description				
Contaminant Qty 1:	0				
Contaminant Unit:	other - see incident description				
Contaminant Code:	43				
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:	n/a				
Receiving Medium:	Surface Water; Source Water Zone				
Activity Preceding Spill:					
Property 2nd Watershed:					
Property Tertiary Watershed:					
Sector Type:	Miscellaneous Communal				
SAC Action Class:					
Call Report Locatn Geodata:					
Time Reported:					
System Facility Address:					
<u>8</u>	2 of 2	NW/219.6	96.9 / -1.00	Roadrig Inc. 1625 MAPLE GROVE RD KANATA ON K2V 1B7	EASR
Approval No:	R-004-2116108650		MOE District:	Ottawa	
Status:	REGISTERED		Municipality:	KANATA	
Date:	April 18, 2024		Latitude:	45.29472222	
Record Type:	EASR		Longitude:	-75.91222222	
Link Source:	MOFA		Geometry X:	-8450509.923	
Project Type:	Waste Management System		Geometry Y:	5668039.417	
Full Address:					
Approval Type:	EASR-Waste Management System				
SWP Area Name:	Mississippi Valley				
PDF NAICS Code:					
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3446554				
PDF Site Location:	1625 MAPLE GROVE Road KANATA ON K2V 1B7				
<u>9</u>	1 of 4	N/221.7	96.9 / -1.00	City of Ottawa 1590 Maple Grove Rd Ottawa ON K2G 6J8	ECA
Approval No:	7754-9YAKHB		MOE District:		
Approval Date:	2015-08-20		City:		
Status:	Approved		Longitude:		
Record Type:	ECA		Latitude:		
Link Source:	IDS		Geometry X:		
SWP Area Name:			Geometry Y:		
Approval Type:	ECA-AIR				
Project Type:	AIR				
Business Name:	City of Ottawa				
Address:	1590 Maple Grove Rd				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5468-9SKKLT-14.pdf				
PDF Site Location:					
<u>9</u>	2 of 4	N/221.7	96.9 / -1.00	City of Ottawa 1590 Maple Grove Rd Ottawa ON K2G 6J8	ECA
Approval No:	7443-9Y8Q8R		MOE District:		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Date:	2015-09-09			City:	
Status:	Approved			Longitude:	
Record Type:	ECA			Latitude:	
Link Source:	IDS			Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Business Name:	City of Ottawa				
Address:	1590 Maple Grove Rd				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6821-9SKKPS-14.pdf				
PDF Site Location:					

<u>9</u>	3 of 4	N/221.7	96.9 / -1.00	City of Ottawa 1590 Maple Grove Rd Ottawa ON NA	SPL
Ref No:	6565-BZ6S7R			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	2021/03/16			Discharger Report:	
Dt MOE Arvl on Scn:				Material Group:	
MOE Reported Dt:	2021/03/16			Impact to Health:	2 - Minor Environment
Dt Document Closed:	2021/07/02			Agency Involved:	
Site No:	0518-9SKKNW				
MOE Response:	No				
Site County/District:	NA				
Site Geo Ref Meth:	NA				
Site District Office:	Ottawa				
Nearest Watercourse:					
Site Name:	Kanata West Pumping Station				
Site Address:	1590 Maple Grove Rd				
Site Region:	Eastern				
Site Municipality:	Ottawa				
Site Lot:					
Site Conc:	NA				
Site Geo Ref Accu:	NA				
Site Map Datum:	NA				
Northing:	NA				
Easting:	NA				
Entity Operating Name:					
Client Name:	City of Ottawa				
Client Type:	Municipal Government				
Source Type:	Sewage Treatment				
Incident Cause:					
Incident Preceding Spill:	Overflow/Surcharge				
Incident Reason:	Equipment Failure				
Incident Summary:	City of Ottawa: 589m3 sewage bypass to pond				
Environment Impact:					
Health Env Consequence:					
Nature of Impact:					
Contaminant Qty:	589 m ³				
Contaminant Qty 1:	589				
Contaminant Unit:	m ³				
Contaminant Code:	44				
Contaminant Name:	SEWAGE,RAW UNCHLORINATED				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:	n/a				
Receiving Medium:	Land; Surface Water				
Activity Preceding Spill:					
Property 2nd Watershed:					
Property Tertiary Watershed:					
Sector Type:	Municipal Sewage				
SAC Action Class:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Call Report Locatn Geodata:					
Time Reported:					
System Facility Address:					
9	4 of 4	N/221.7	96.9 / -1.00	Robert Pickard Env Centre Water Pollution Control Plant 1590 Maple Grove Rd Kanata, ON K2V 1B7 OTTAWA ON	SPL
Ref No:	1-2310HL			Municipality No:	
Year:				Nature of Damage:	
Incident Dt:	8/11/2022 12:15:00 PM			Discharger Report:	
Dt MOE Arvl on Scrn:				Material Group:	
MOE Reported Dt:	8/11/2022 12:53:36 PM			Impact to Health:	0 No Impact
Dt Document Closed:	9/1/2022 8:49:15 AM			Agency Involved:	
Site No:					
MOE Response:	Desktop Response				
Site County/District:					
Site Geo Ref Meth:					
Site District Office:	Ottawa District Office				
Nearest Watercourse:					
Site Name:	Robert Pickard Env Centre Water Pollution Control Plant				
Site Address:	1590 Maple Grove Rd Kanata, ON K2V 1B7				
Site Region:					
Site Municipality:	OTTAWA				
Site Lot:					
Site Conc:					
Site Geo Ref Accu:					
Site Map Datum:					
Northing:					
Easting:					
Entity Operating Name:					
Client Name:	OTTAWA				
Client Type:	Government, Municipal				
Source Type:	Sewer (Private or Municipal)				
Incident Cause:					
Incident Preceding Spill:	Other (specify)				
Incident Reason:	Equipment failure/malfunction				
Incident Summary:	city of Ottawa: Raw Sewage [4.55L] from Manhole onto Grass				
Environment Impact:	1 Minor Impact				
Health Env Consequence:					
Nature of Impact:					
Contaminant Qty:	4.54609 litre (L)				
Contaminant Qty 1:					
Contaminant Unit:					
Contaminant Code:					
Contaminant Name:	SEWAGE, RAW UNCHLORINATED				
Contaminant Limit 1:					
Contam Limit Freq 1:					
Contaminant UN No 1:					
Receiving Medium:	Land				
Activity Preceding Spill:	Other (specify)				
Property 2nd Watershed:	Central Ottawa				
Property Tertiary Watershed:	02KF-Central Ottawa - Mississippi				
Sector Type:	SEWAGE TREATMENT FACILITIES				
SAC Action Class:	Municipal Sewage				
Call Report Locatn Geodata:	{"integration_ids":["PR00004316183"],"wks":["POINT (-75.9101062000 45.2953144000)],"creation_date":"2022-08-11"}				
Time Reported:					
System Facility Address:	800 GREEN'S CREEK DR, OTTAWA, ON K1J 1K6				

Unplottable Summary

Total: 23 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Taggart Construction Limited	Mobile Facility	Ottawa ON	
CA	Richcraft Homes Ltd.		Ottawa ON	
CA	Richcraft Homes Ltd.		Ottawa ON	
CA	Richcraft Homes Ltd.		Ottawa ON	
CA	Richcraft Homes Ltd.		Ottawa ON	
CA	Richcraft Homes Ltd.		Ottawa ON	
CA	KANATA HYDRO	MAPLE GROVE ROAD	KANATA CITY ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CA	KANATA HYDRO	MAPLE GROVE ROAD	KANATA CITY ON	
CA		Part of Lot 1, Concession 1	Kanata ON	
CONV	Taggart Construction Limited		Ottawa ON	
EBR	Taggart Construction Limited	Mobile Facility Ottawa Ontario Ottawa	ON	
EBR	Richcraft Homes Ltd.	Ottawa, ON Canada	ON	
ECA	Taggart Construction Limited	Mobile Facility	Ottawa ON	K1V 8Y3
ECA	Richcraft Homes Ltd.		Ottawa ON	K1G 4K1
ECA	Richcraft Homes Ltd.		Ottawa ON	K1G 4K1
ECA	Richcraft Homes Ltd.		Ottawa ON	K1G 4K1
ECA	Richcraft Homes Ltd.		Ottawa ON	K1G 4K1

SPL	Taggart Construction Limited		Ottawa ON
SPL	Taggart Construction Limited	Maple Grove Rd	Ottawa ON
WWIS		lot 1	ON
WWIS		lot 1	ON

Unplottable Report

Site: *Taggart Construction Limited*
Mobile Facility Ottawa ON

Database:
CA

Certificate #: 0636-7KEL2F
Application Year: 2008
Issue Date: 11/19/2008
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Richcraft Homes Ltd.*
Ottawa ON

Database:
CA

Certificate #: 1207-5YPRH9
Application Year: 2004
Issue Date: 5/6/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Richcraft Homes Ltd.*
Ottawa ON

Database:
CA

Certificate #: 3841-632P4R
Application Year: 2004
Issue Date: 7/20/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Richcraft Homes Ltd.*
Ottawa ON

Database:
CA

Certificate #: 7432-7UVKBU
Application Year: 2009

Issue Date: 8/13/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Richcraft Homes Ltd.**
Ottawa ON

Database:
CA

Certificate #: 9080-5UYQRL
Application Year: 2004
Issue Date: 1/8/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Richcraft Homes Ltd.**
Ottawa ON

Database:
CA

Certificate #: 9817-7WNR3C
Application Year: 2009
Issue Date: 10/15/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **KANATA HYDRO**
MAPLE GROVE ROAD KANATA CITY ON

Database:
CA

Certificate #: 3-0477-86-
Application Year: 86
Issue Date: 9/8/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Part of Lot 1, Concession 1 Kanata ON

Database:
CA

Certificate #: 6046-4FFRDH
Application Year: 00
Issue Date: 1/17/00
Approval Type: Municipal & Private sewage
Status: Amended
Application Type: New Certificate of Approval
Client Name: Nortel Networks Corporation
Client Address: 2 Constellation Crescent
Client City: Nepean
Client Postal Code: K2G 5J9
Project Description: Stormwater Management Facility - Nortel Palladium One
Contaminants:
Emission Control:

Site: Part of Lot 1, Concession 1 Kanata ON

Database:
CA

Certificate #: 6046-4FFRDH
Application Year: 01
Issue Date: 4/9/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Nortel Networks Optical Components Corporation
Client Address: 500 Palladium Drive
Client City: Kanata
Client Postal Code: K2V 1C2
Project Description: Administrative Name Change
Contaminants:
Emission Control:

Site: KANATA HYDRO
MAPLE GROVE ROAD KANATA CITY ON

Database:
CA

Certificate #: 7-0345-86-
Application Year: 86
Issue Date: 6/9/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Part of Lot 1, Concession 1 Kanata ON

Database:
CA

Certificate #: 6046-4FFRDH
Application Year: 01
Issue Date: 2/1/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Nortel Networks Corporation
Client Address: 2 Constellation Crescent
Client City: Nepean
Client Postal Code: K2G 5J9
Project Description: This proposal is for modifications to the existing storm sewer and stormwater management system to

accommodate an additional 1.0 hectares parking lot. Runoff from this new area will be attenuated by underground storage. No increase in the site release rate is proposed. Modifications to the wet pond outlet structure are proposed to increase the permanent pond volume.

Contaminants:
Emission Control:

Site: **Taggart Construction Limited**
Ottawa ON

Database:
CONV

File No: 012802

Location:

Crown Brief No:

Region:

Court Location:

Ministry District:

Publication City:

Publication Title:

Act:

Act(s):

First Matter:

Second Matter:

Investigation 1:

Investigation 2:

Penalty Imposed:

Description:

Taggart Construction Limited, Paterson Group Inc. and Robert Passmore have been fined \$5,000 each, totalling \$15,000 plus a victim fine surcharge, after pleading guilty on January 15, 2009 to violations under the Ontario Water Resources Act. Taggart Construction Limited and Paterson Group Inc. were convicted of failing to comply with a Provincial Officer Order by taking more than 50,000 litres of water per day, and Mr. Passmore was convicted of giving false or misleading information to the ministry. The parties were given six months to pay the fine. The Court heard that Taggart Construction Limited was contracted by a developer to install municipal services at a subdivision in Ottawa which required dewatering activities. After being issued a Provincial Officer Order to restrict water taking activities to below 50,000 litres per day until a permit had been obtained, Taggart hired Paterson Group Inc. to submit an application for the permit. Taggart then pumped over 50,000 litres of water based on information provided by Paterson Group employee, Mr. Passmore, that the go ahead to pump had been given when a permit had yet to be issued. In an interview with ministry investigators, Mr. Passmore denied giving Taggart verbal approval to pump in excess of 50,000 litres per day. Taggart Construction Limited, Paterson Group Inc. and Mr. Passmore were charged following an investigation by the Ministry of the Environment's Investigations and Enforcement Branch.

Background:

URL:

Additional Details

Publication Date:

Count: 1

Act: OWRA

Regulation:

Section:

Act/Regulation/Section: OWRA

Date of Offence:

Date of Conviction:

Date Charged: January 15, 2009

Charge Disposition: fine, victim fine surcharge

Fine: \$5,000

Synopsis:

Site: **Taggart Construction Limited**
Mobile Facility Ottawa Ontario Ottawa ON

Database:
EBR

EBR Registry No: IA07E0165

Ministry Ref No: 8556-6XWUA3

Notice Type: Instrument Decision

Notice Stage:

Notice Date: December 09, 2008

Proposal Date: January 30, 2007

Year: 2007

Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)

Off Instrument Name:

Posted By:

Company Name: Taggart Construction Limited

Decision Posted:

Exception Posted:

Section:

Act 1:

Act 2:

Site Location Map:

Site Address:
Location Other:
Proponent Name:
Proponent Address: 3187 Albion Rd S, Ottawa Ontario, K1V 8Y3
Comment Period:
URL:
Summary:

Site Location Details:

Mobile Facility Ottawa Ontario Ottawa

Site: **Richcraft Homes Ltd.**
Ottawa, ON Canada ON

Database:
EBR

EBR Registry No: 019-1273
Ministry Ref No: KV-C-001-18
Notice Type: Instrument
Notice Stage: Decision
Notice Date:
Proposal Date: February 27, 2020
Year: 2020
Instrument Type: Permit for activities to achieve an overall benefit to a species
Off Instrument Name: Permit for activities with conditions to achieve overall benefit to the species (ESA s.17(2) (c))
Posted By: Ministry of the Environment, Conservation and Parks
Company Name:
Site Address: Ottawa, ON Canada
Location Other:
Proponent Name: Richcraft Homes Ltd.
Proponent Address: Richcraft Homes Ltd. 2280 St. Laurent Boulevard Unit 201 Ottawa, ON K1G4K1 Canada
Comment Period: February 27, 2020 - March 28, 2020 (30 days) Closed
URL: <https://ero.ontario.ca/notice/019-1273>
Summary:

Decision Posted: May 10, 2021
Exception Posted:
Section: Section 17 (2) (c)
Act 1: Endangered Species Act , R.S.O. 2007
Act 2: Endangered Species Act, 2007
Site Location Map:

Site Location Details:

Part of Lot 8, Concession 1 in the Geographic Township of March, Ottawa.

Site: **Taggart Construction Limited**
Mobile Facility Ottawa ON K1V 8Y3

Database:
ECA

Approval No: 0636-7KEL2F
Approval Date: 2008-11-19
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Taggart Construction Limited
Address: Mobile Facility
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/8556-6XWUA3-14.pdf>
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Richcraft Homes Ltd.**
Ottawa ON K1G 4K1

Database:
ECA

Approval No: 9080-5UYQRL
Approval Date: 2004-01-08
Status: Approved
Record Type: ECA
Link Source: IDS

MOE District:
City:
Longitude:
Latitude:
Geometry X:

SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Richcraft Homes Ltd.
Address:
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/5802-5UQM74-14.pdf>
PDF Site Location:

Site: **Richcraft Homes Ltd.**
Ottawa ON K1G 4K1

Database:
ECA

Approval No: 5800-5UYNQD
Approval Date: 2004-01-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Richcraft Homes Ltd.
Address:
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Richcraft Homes Ltd.**
Ottawa ON K1G 4K1

Database:
ECA

Approval No: 6566-A7AMSG
Approval Date: 2016-02-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Richcraft Homes Ltd.
Address:
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1204-A4KTW4-14.pdf>
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Richcraft Homes Ltd.**
Ottawa ON K1G 4K1

Database:
ECA

Approval No: 5204-4RGRNN
Approval Date: 2000-12-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: Richcraft Homes Ltd.
Address:
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Taggart Construction Limited**
Ottawa ON

Database:
SPL

Ref No: 7584-BB3KRQ
Year:
Incident Dt: 4/4/2019
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/9/2019
Dt Document Closed:
Site No: NA
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa
Nearest Watercourse:
Site Name: 1896 John Quinn rd, Metcalfe<UNOFFICIAL>
Site Address:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name: Taggart Construction Limited
Client Type: Corporation
Source Type:
Incident Cause:
Incident Preceding Spill:
Incident Reason:
Incident Summary: Mobile Crusher Relocation - 2019
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site: **Taggart Construction Limited**
Maple Grove Rd Ottawa ON

Database:
SPL

Ref No: 3642-AGCRUN
Year:
Incident Dt: 2016/12/01
Dt MOE Arvl on Scn:
MOE Reported Dt: 2016/12/05
Dt Document Closed:
Site No: NA
MOE Response: No
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Pool Creek<UNOFFICIAL>
Site Address: Maple Grove Rd

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: 5016168
Easting: 428634
Entity Operating Name:
Client Name: Taggart Construction Limited
Client Type:
Source Type:
Incident Cause:
Incident Preceding Spill: Other
Incident Reason: Weather Conditions
Incident Summary: Taggart Construction - Sediment to Poole Creek
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Contaminant Code: 43
Contaminant Name: SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Surface Water
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: Watercourse Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

Site: lot 1 ON

Database:
WWIS

Well ID: 1518217	Flowing (Y/N):
Construction Date:	Flow Rate:
Use 1st: Domestic	Data Entry Status:
Use 2nd: Livestock	Data Src: 1
Final Well Status: Water Supply	Date Received: 05/06/1983
Water Type:	Selected Flag: TRUE
Casing Material:	Abandonment Rec:
Audit No:	Contractor: 3644
Tag:	Form Version: 1
Constructn Method:	Owner:
Elevation (m):	County: OTTAWA-CARLETON
Elevatn Reliabilty:	Lot: 001
Depth to Bedrock:	Concession:
Well Depth:	Concession Name:
Overburden/Bedrock:	Easting NAD83:
Pump Rate:	Northing NAD83:
Static Water Level:	Zone:
Clear/Cloudy:	UTM Reliability:
Municipality: OTTAWA CITY	
Site Info:	

Bore Hole Information

Bore Hole ID: 10040087	Elevation:
DP2BR:	Elevrc:
Spatial Status:	Zone: 18
Code OB:	East83:

Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/21/1983
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931037741
Layer: 3
Color: 2
General Color: GREY
Material 1: 13
Material 1 Desc: BOULDERS
Material 2: 14
Material 2 Desc: HARDPAN
Material 3:
Material 3 Desc:
Formation Top Depth: 35.0
Formation End Depth: 52.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037739
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037740
Layer: 2
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 13
Material 2 Desc: BOULDERS
Material 3: 14
Material 3 Desc: HARDPAN
Formation Top Depth: 15.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931037742
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 52.0
Formation End Depth: 167.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961518217
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10588657
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930069992
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 53.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930069993
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 167.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991518217
Pump Set At:
Static Level: 25.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 90.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft

Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934897806
Test Type:
Test Duration: 60
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934103534
Test Type:
Test Duration: 15
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934639345
Test Type:
Test Duration: 45
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934378286
Test Type:
Test Duration: 30
Test Level: 60.0
Test Level UOM: ft

Water Details

Water ID: 933474886
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 148.0
Water Found Depth UOM: ft

Water Details

Water ID: 933474885
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 80.0
Water Found Depth UOM: ft

Water Details

Water ID: 933474887
Layer: 3
Kind Code: 5
Kind: Not stated

Water Found Depth: 162.0
Water Found Depth UOM: ft

Site:
lot 1 ON

Database:
WWIS

Well ID: 1533687
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 257732
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: GOULBOURN TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 05/21/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6907
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 001
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10537521
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/15/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 961533687
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11086091
Casing No: 1
Comment:
Alt Name:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNR), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2024

Abandoned Mine Information System:

Provincial

[AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Apr 2024

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Apr 30, 2024

Borehole:

Provincial

[BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Apr 30, 2024

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Feb 2025

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Dec 2024

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Feb 28, 2025

Drill Hole Database:

Provincial [DRL](#)

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Aug 2024

Delisted Fuel Tanks:

Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Feb 28, 2025

Environmental Registry:

Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Feb 28, 2025

Environmental Compliance Approval:

Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Feb 28, 2025

Environmental Effects Monitoring:

Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 31, 2024

Environmental Issues Inventory System:

Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2023

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2024

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic:

Provincial

FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. As of January 1, 2023, businesses and institutions subject to the amended Reg. 347: General – Waste Management are required to report their activities and pay fees through Resource Productivity & Recovery Authority (RPRA) online Hazardous Waste Program Registry (HWPR) rather than the Hazardous Waste Information Network (HWIN) system previously operated by the Ministry of the Environment, Conservation and Parks (MECP). Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jun 30, 2024

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Apr 2024

TSSA Historic Incidents:

Provincial

HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

Canadian Mine Locations:

Private

MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

[MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2024

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

The Ministry of the Environment Conservation and Parks (MECP) provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act. MECP publicly releases the Environmental Compliance Report (ECR) on the Ontario Data Catalogue. In Ontario, all facilities with regulated wastewater discharges or air emissions under the Ontario Water Resources Act and the Environmental Protection Act must monitor and report any cases where approved operating limits have been exceeded.

Government Publication Date: Dec 31, 2023

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

[NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2024

National Energy Board Wells:

Federal

[NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

[NPR2](#)

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic:

Federal

[NPRI](#)

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-May 31, 2024

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database includes well owner/operator, location, permit issue date, and well cap date, license number, status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provided for each well record.

Government Publication Date: 1800-Aug 2024

Inventory of PCB Storage Sites:

Provincial

[OPCB](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

[ORD](#)

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Feb 28, 2025

Canadian Pulp and Paper:

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Feb 28, 2025

Ontario PFAS Spills:

Provincial

PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Jun 2024; Aug 2024; Oct-Nov 2024

NPRI Reporters - PFAS Substances:

Federal

PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024

Potential PFAS Handlers from NPRI:

Federal

PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024

Pipeline Incidents:

Provincial

PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing is an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Potential PFAS Handlers from EASR:

Provincial

PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

Private and Retail Fuel Storage Tanks:

Provincial

PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Feb 28, 2025

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Feb 2025

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Apr 30, 2024

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Jun 2024; Aug-Jan 2025

Wastewater Discharger Registration Database:

Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2021

Anderson's Storage Tanks:

Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Apr 2024

Variances for Abandonment of Underground Storage Tanks:

Provincial

[VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial

[WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011 - Feb 28, 2025

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.