

Phase One Environmental Site Assessment

Erin Heights Golf Course
5525 8 Line
Erin, Ontario.

Prepared For:

Empire Communities
125 Villarboit Crescent
Vaughan, Ontario
L4K 4K2

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DS CONSULTANTS LTD.
6221 Highway 7, Unit 16
Vaughan, Ontario, L4H 0K8
Telephone: (905) 264-9393
www.dsconsultants.ca

Executive Summary

DS Consultants Ltd. (DS) was retained by Empire Communities to complete a Phase One Environmental Site Assessment (ESA) of the property located at 5525 8 Line, Erin, Ontario herein referred to as the “Phase One Property” or “Site”. It is DS’s understanding that this Phase One ESA has been requested for due diligence purposes in association with the proposed acquisition of the Property.

The Phase One ESA was completed to satisfy the intent of the requirements, methodology and practices for a Phase One ESA as described in Ontario Regulation 153/04 (as amended). The objective of the Phase One ESA is to identify the presence or absence of potentially contaminating activities (PCAs) on the Phase One Property and/or within the Phase One Study Area, and to determine if the PCAs identified within the Phase One Study Area are likely to result in an Area of Potential Environmental Concern (APEC) on the Phase One Property. The information obtained by the Phase One ESA will be used to assess whether further investigation in the form of a Phase Two ESA is merited. It should be noted that this Phase One ESA does not include any sampling or testing and is based solely on a review of readily available data, and observations made during the Phase One Site Reconnaissance.

The Phase One Property is an irregular shaped 14.1355-hectare (34.9295 acres) parcel of land situated within a rural neighbourhood in the Town of Erin, Ontario. The Phase One Property is bounded by single residential development to the east and agricultural land to the north, south and west.

The Phase One Property was historically used for agricultural purposes from at least 1860 until 1970 at which point the Phase One Property was developed for commercial purposes as a golf course. The Phase One Property is currently occupied by Erin Heights Golf Course.

Based on the findings of the Phase One ESA, DS presents the following findings:

- ◆ The topography of the Phase One Property is undulating with surface elevations ranging from approximately 400 to 430 meters above sea level (masl). The topography within the Phase One Study Area generally slopes to the north towards the Erin branch of the Credit River located approximately 45m north of the Phase One Property. Long term groundwater monitoring would be required in order to confirm the direction of groundwater flow on the Phase One Property;
- ◆ The Site is situated within the Guelph Drumlin Field physiographic region characterized by spillways. The Phase One Study Area borders drumlinized till plains to the south. The overburden in the vicinity of the Phase One Property is described as glaciofluvial deposits consisting of river deposits and delta topset facies. The Phase One Study Area borders till consisting of stone-poor, sand silt to silty sand-textured till on Paleozoic terrain to the south. The bedrock geology within the Phase One Study Area is described as “sandstone, shale,

dolostone, siltstone of the Armabel formation”. Based on a review of the MECP Well Records, the bedrock in the Phase One Study Area is anticipated to be encountered at depths greater than 30 metres below ground surface (mbgs).

- ◆ Several potentially contaminating activities were identified on-Site associated with the operation of the golf course including:
 - One diesel AST and one gasoline AST were located west adjacent to the equipment maintenance shop **(PCA-1)**;
 - A shop used for the maintenance of golf course grounds maintenance equipment **(PCA-2)**;
 - Derelict grounds maintenance equipment was located on the south-central portion of the Site **(PCA-3)**;
- ◆ Potential asbestos-containing pipe wrap was observed in the basement of the clubhouse.
- ◆ The neighbouring properties within the Phase One Study Area generally appear to have been used for agricultural purposes since the 1860 and residential purposes since the 1990s. No off-site PCAs were identified.

Based on a review of the information available at this time it is concluded that three (3) PCAs were identified within the Phase One Study Area, contributing to three (3) APECs in, on, or under the Phase One Property. The Contaminants of Potential Concern (COPCs) identified by the QP include Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs and PAHs. Based on the findings of this Phase One ESA, it is concluded that a Phase Two ESA would be required in order to investigate the aforementioned APECs and to assess the environmental soil and groundwater conditions on the Phase One Property. A Record of Site Condition cannot be filed based on the findings of the Phase One ESA.

A hazardous materials and designated substances survey is recommended prior to demolition of the current site buildings to confirm the presence/absence of asbestos containing materials and other designated substances.

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1.0 Introduction

DS Consultants Ltd. (DS) was retained by Empire Communities to complete a Phase One Environmental Site Assessment (ESA) of the property located at 5525 8 Line, Erin, Ontario, herein referred to as the “Phase One Property” or “Site”. It is DS’s understanding that this Phase One ESA has been requested for due diligence purposes in association with the proposed acquisition of the Property.

The intended future residential property use is considered to be a more sensitive property use as defined under O.Reg. 153/04 (as amended) than the current commercial use; therefore, the filing of a Record of Site Condition (RSC) with the Ontario Ministry of Environment, Conservation and Parks (MECP) is mandated under the *Environmental Protection Act*.

The Phase One ESA was completed to satisfy the intent of the requirements, methodology and practices for a Phase One ESA as described in Ontario Regulation 153/04 (as amended). The objectives of the Phase One ESA are to identify the presence or absence of potentially contaminating activities (PCAs) on the Phase One Property and/or within the Phase One Study Area, and to determine if the PCAs identified within the Phase One Study Area are likely to result in an Area of Potential Environmental Concern (APEC) on the Phase One Property. The information obtained by the Phase One ESA will be used to assess whether further investigation in the form of a Phase Two ESA is merited. It should be noted that this Phase One ESA does not include any sampling or testing and is based solely on a review of readily available data, and observations made during the Phase One Site Reconnaissance.

1.1 Phase One Property Information

The information for the Phase One Property is provided in the following Table.

Table 1-1: Phase One Property Information

Criteria	Information	Source
Legal Description	PART OF LOT 19. REGISTRAR'S COMPILED PLAN 686; PART 4 PLAN 61R21828; SUBJECT TO AN EASEMENT AS IN ROS211740; TOWN OF ERIN	Parcel Register
PIN	71152-0481 (LT)	Parcel Register
Municipal Address	5525 8 Line, Erin, Ontario.	Client
Property Owner	5021820 Ontario Inc.	Parcel Register
Property Owner Contact Information	Jim Holmes 185 Derry Road Mississauga, ON, L2N L63	Former Owner/Current Occupant
Site Area	14.1355-hectare (34.9295 acres)	Parcel Register

1.2 Site Description

The Phase One Property is a rectangular shaped 14.1355-hectare (34.9295 acres) parcel of land situated within a rural neighbourhood in the Town of Erin, Ontario. The Phase One Property is The Phase One Property is bounded by single residential development to the east and agricultural land to the north, south and west, and is located approximately 370 m southeast of intersection of 8 Line and Sideroad 17. A Site Location Plan depicting the general location of the Phase One Property is provided in Figure 1.

For the purposes of this report, 17 sideroad is assumed to be aligned in an east-west orientation, and 8 Line in a north-south orientation. A Plan of Survey for the Phase One Property prepared by R-PE Surveying Ltd., an Ontario Land Surveyor and dated April 26, 2021, has been provided under Appendix A.

The Property is currently occupied by Erin Heights Golf Course which currently includes a two-storey brick main clubhouse, six (6) log cabin rental cottages, and a metal maintenance shop. A Site Plan depicting the orientation of the buildings on-site is provided in Figure 2.

2.0 Scope of Investigation

The Phase One ESA was completed to satisfy the intent of the requirements, methodology and practices for a Phase One ESA as described in Ontario Regulation 153/04, as amended (Phase One ESA requirements). This included:

- ◆ A review of reasonably ascertainable records and reports regarding historical and current use, regulatory information, occupancy, and activities for the Phase One Property, including:
 - Physical setting information such as aerial photographs, topographic mapping, available historical maps and drawings;
 - Company records (e.g., site plans, building plans, permit records, production and maintenance records, asbestos surveys, site utility drawings, emergency response and contingency plans, spill reporting plans and records, inventories of chemicals and their usage (e.g. WHMIS), environmental monitoring data, waste management records, inventory of underground and aboveground tanks, environmental audit reports) provided to DS;
 - Geological and hydrogeological information in published government maps and/or reports;
 - A review of information on file with Ecolog ERIS, a commercial database that provides information from numerous private, provincial, and federal environmental databases/registries;
 - Review of fire insurance plans, municipal directory documentation and available environmental reports that are pertinent to the Phase One Property;

- Regulatory Information, including such as Permits or Certificates of Approval (pertaining to activities that may impact the condition of the property, orders, control orders, or complaints related to environmental compliance that may impact the condition of the property, and violations of environmental statutes, regulations, by-laws, and permits that may impact the condition of the property);
- Environmental source information including published and online records from Ministry of Environment, Conservation and Parks (MECP), Environment Canada, and the Technical Standards and Safety Authority (TSSA); and
- The Ontario Ministry of Natural Resources (MNR) Natural Heritage Information Centre database and the Conservation Authority website for information specific to natural areas, such as locations of environmentally sensitive areas or species.
- ◆ Interviews with available individuals having knowledge of current and/or past site activities;
- ◆ An inspection of the Phase One Property, and the activities on the adjacent properties, including and assessment of the following:
 - The site operations, processes, and waste management currently carried out on the Phase One Property.
 - The neighbouring land uses (i.e. identification of environmentally sensitive neighbours, as well as an assessment of potential off-site sources of contamination);
 - The source of potable water for the Phase One Property and properties within the Phase One Study Area;
 - The potential presence of existing or former above-ground or underground fuel storage tanks (ASTs or USTs);
 - Possible cut and fill operations that may resulted in the importation of fill material of unknown quality;
 - The presence/absence of floor cracks, hydraulic hoists, elevators, sumps and drains;
 - Areas suspected to contain evidence of surficial and sub-surface impacts (e.g. areas of staining);
 - The potential presence of various Designated Substances and building materials including:
 - Friable and non-friable asbestos
 - Urea formaldehyde foam insulation (UFFI)
 - Chlorofluorocarbons (CFCs) in air conditioning and refrigeration equipment
 - PCB-containing materials and electrical equipment
 - Lead-based paint
 - Mould
 - The presence/absence of wells, pits and lagoons, drainage sumps and floor drains, sewage and wastewater disposal pipelines; and

- General site conditions, including topography and drainage, standing water, right-of-ways, presence of underground utilities, evidence of stained or odorous soils, and stressed vegetation.
- ◆ Evaluation of the information and documentation of the results in the form of a Phase One ESA Report.

The objectives of the Phase One ESA are:

1. To assess the environmental condition of the Phase One Property to develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in, or under the Phase One Property;
2. To identify potentially contaminating activities within the Study Area (i.e., areas within 250 m of the Property), and to assess if Areas of Potential Environmental Concern (APECs) exist on the Phase One Property;
3. To identify the Potential Contaminants of Concern associated with the PCAs identified; and
4. To provide a basis for subsequent investigation, if required, based on the findings of the Phase One ESA.

3.0 Records Review

3.1 General

3.1.1 Phase One Study Area Determination

Based on a review of the available historical records and the observations made during the Phase One Site Reconnaissance, no heavy industrial properties or other relevant potentially contaminating activities were observed which were considered to merit expanding the Phase One Study Area. As such the Phase One Study Area was defined by a 250-meter radius around the Phase One Property boundary, in accordance with O.Reg. 153/04 (as amended).

The properties within 250 m of the Phase One Property generally consist of agricultural and residential land uses. An assessment of the historical and current use of all properties within the Phase One Study Area was conducted in order to assess for the presence/absence of potentially contaminating activities. A summary of the potentially contaminating activities identified within the Phase One Study Area is provided under Section 6.2. A plan depicting the Phase One Study Area limits as well as the current land uses is presented in Figure 3.

3.1.2 First Developed Use Determination

The first developed use of the Phase One Property is considered under O.Reg. 153/04 (as amended) to be either the first use of the Phase One Property in or after 1875 that resulted in the development of a building or structure on the property, or the first potentially contaminating use or activity on the Phase One Property.

The determination of the first developed use of the Phase One Property was based on a review of available aerial photographs, historical maps, fire insurance plans, city directories, and interviews. Based on the information obtained, the first developed use of the Phase One Property was for residential purposes and occurred between 1880 and 1930.

3.1.3 Fire Insurance Plans

Fire insurance plans were prepared between 1875 and 1923 and revised in some areas until the 1970s. Opta Information Intelligence (Opta) was retained to obtain copies of available FIPs for the Site and adjoining properties, as well as Property Underwriter's Reports (PURs) and Property Underwriter's Plans (PUPs) related to the Site. No FIPs, PURs or PUPs were available for the Phase One Property. A copy of the Opta report has been included under Appendix B.

3.1.4 Chain of Title

A Chain of Title search was not provided by the Client at the time of the investigation. The Chain of Title will need to be obtained prior to the submission of a Record of Site Condition. Information regarding the historical use of the Site was obtained from alternative sources including the City Directories, aerial photographs, and the Phase One Interview.

3.1.5 Environmental Reports

No other environmental reports were provided to DS at the time of the investigation.

3.1.6 City Directories

Limited city directories were available for DS to review at the time of this investigation. Due to the current COVID-19 pandemic, municipal facilities including libraries have been closed for an undetermined amount of time. The internal database maintained by Ecolog ERIS retrieved city directories for the years 1960 to 1999. No city directories were available for the Phase One Property from Ecolog ERIS. A copy of the City Directory search report has been included under Appendix C.

3.2 Environmental Source Information

3.2.1 Ecolog Eris Report

EcoLog Environmental Risk Information Services Ltd. (ERIS) is an organization that maintains and searches various government and private databases for property-related environmental information.

DS contacted EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS), an environmental database and information service company, to request a search of government and private records for information pertaining to the Phase One Property and Phase One Study Area. EcoLog searched 15 Federal databases, 37 Provincial databases and 10 private databases. A summary of the databases provide by ERIS is provided in the Table below:

Table 3-1: Summary of Environmental Databases Reviewed

Federal Government Source Databases	Private Source Databases
Contaminated Sites on Federal Land; Environmental Effects Monitoring; Environmental Issues Inventory System; Federal Convictions; Fisheries & Oceans Fuel Tanks; Indian & Northern Affairs Fuel Tanks; National Analysis of Trends in Emergencies System (NATES); National Defense & Canadian Forces Fuel Tanks; National Defense & Canadian Forces Spills; National Defense & Canadian Forces Waste Disposal Sites; National Environmental Emergencies System (NEES); National PCB Inventory; National Pollutant Release Inventory; Parks Canada Fuel Storage Tanks; and Transport Canada Fuel Storage Tanks.	Anderson’s Storage Tanks; Anderson’s Waste Disposal Sites; Automobile Wrecking & Supplies; Canadian Mine Locations; Canadian Pulp and Paper; Chemical Register; ERIS Historical Searches; Oil and Gas Wells; Retail Fuel Storage Tanks; and Scott’s Manufacturing Directory.
Provincial Government Source Databases	
Abandoned Aggregate Inventory; Abandoned Mine Information System; Aggregate Inventory; Borehole; Certificates of Approval; Certificates of Property Use; Commercial Fuel Oil Tanks; Compliance and Convictions; Drill Hole Database; Environmental Activity and Sector Registry; Environmental Compliance Approval; Environmental Registry; Fuel Storage Tank; Fuel Storage Tank – Historic; Inventory of Coal Gasification Plants and Coal Tar Sites; TSSA Historic Incidents; TSSA Incidents; TSSA Pipeline Incidents; TSSA Variances for Abandonment of Underground Storage Tanks;	Inventory of PCB Storage Sites; Landfill Inventory Management Ontario; List of TSSA Expired Facilities; Mineral Occurrences; Non-Compliance Reports; Ontario Oil and Gas Wells; Ontario Regulation 347 waste Generators Summary; Ontario Regulation 347 Waste Receivers Summary; Ontario Spills; Orders; Permit to Take Water; Pesticide Register; Private and Retail Fuel Storage Tanks; Record of Site Condition; Waste Disposal Sites – MECP 1991 Historical Approval Inventory; Waste Disposal Sites – MECP CA Inventory; Wastewater Discharger Registration Database; and Water Well Information System

The ERIS report indicated that there were three (3) listings for the Phase One Property, and twelve (12) listings for the remaining properties within the Phase One Study Area. A copy of the ERIS report has been provided under Appendix D. A summary of the potentially contaminating activities identified in the ERIS report and other pertinent information is provided in the Table below:

Table 3-2: Summary of ERIS Report Findings on Phase One Property

Database/Date	Entry Details	PCA ID No.
Permit to Take Water (PTTW)	One (1) record was identified for a PTTW (permit # 3587-6VKQ64), registered to Derrydale Golf Course Ltd. Since February 23, 2007.	No PCA
ERIS Historical Searches (EHS)	One (1) record was identified for a standard report dated October 25, 2019.	No PCA
Water Well Information System (WWIS)	One (1) record was identified for a commercial well drilled in May 1963 within the bedrock to 218 ft. Depth to water in the well was identified at 217 ft below the ground surface.	No PCA

Table 3-3: Summary of ERIS Report Findings within Phase One Study Area

Database/Date	Entry Details	PCA ID No.
Fuel Oil Spills and Leaks (INC)	A fuel oil spill was recorded at 5487 Eighth Line, Halton Hills in November 2012 where fuel oil leaked from a compression fitting. The quantity of fuel oil leaked was likely not significant; as such, no environmental impacts to the Phase One Property are inferred.	No PCA
ERIS Historical Searches (EHS)	Two (2) records were identified for standard reports dated November 2, 2020.	No PCA
Water Well Information System (WWIS))	Nine (9) water well records were identified within the Phase One Study Area. Seven (7) of the wells were noted as domestic water supply wells.	No PCA.

3.2.2 Ministry of the Environment- Freedom of Information

A request was submitted to the MECP Freedom of Information and Protection of Privacy Office (Appendix E) to determine if there were any environmental incidents or violations associated with the Phase One Property; whether any Control Orders have been issued; whether there have been any other environmental concerns associated with the property such as complaints, inspections, etc.; whether any environmental investigations have been carried out regarding the subject property; and, to determine if the Ministry’s Spills Action Centre’s (SAC’s) files contain any reported spills that had occurred in the site vicinity. Note that the SAC’s database dates back only to 1988 and many of the occurrences on file have only been reported voluntarily. In addition, the MECP was requested to search their files (all years) regarding the following parameters: air emissions, water, sewage, wastewater and pesticides.

Files pertinent to this investigation would include, though are not limited to: regulatory permits, records; material safety data sheets; underground utility drawings; inventories of chemicals, chemical usage and chemical storage areas; inventory of aboveground storage tanks and underground storage tanks; monitoring data, including that done at the request of the MECP; historical and current waste management, receiver and generator records; process, production and maintenance documents related to areas of potential environmental concern; spills/discharge

records; emergency and contingency plans; environmental audit reports; site plan of facility showing areas of production and manufacturing.

A response has not yet been received from the MECP. The client will be made aware of any records identified by the MECP file search, when a response is received from the Ministry.

3.2.3 Technical Standards and Safety Authority

The Technical Standards and Safety Authority (TSSA) maintain records related to storage tanks for petroleum related products. The TSSA was contacted to review records related to the Property and Study Area. According to response received on May 10, 2021 from Ms. Saara of the TSSA, there were no records for the Phase One Property. A copy of the correspondence can be found in Appendix E.

3.2.4 Areas of Natural and Scientific Interest

The Natural Heritage Areas database published by the Ministry of Natural Resources (MNR) was reviewed in order to identify the presence/absence of areas of natural significance including provincial parks, conservation reserves, areas of natural and scientific interest, wetlands, environmentally significant areas, habitats of threatened or endangered species, and wilderness areas. The Wellington County Official Plan was also reviewed as part of this assessment.

A review of these databases indicated the Gypsy Cuckoo Bumble Bee as an endangered species, the yellow-banded Bumble Bee, Snapping Turtle and Midland Painted Turtles as species of special concern and the Eastern Meadowlark as a threatened species within 1 km of the Phase One Property.

According to the MNRF, the Gypsy Cuckoo Bumble Bee is a medium sized bumble bee with a white-tipped abdomen and occurs in diverse habitats such as open meadows, agricultural and urban areas, boreal forest and woodlands. The yellow-banded Bumble Bee is classified by the MNRF as medium-sized bumble bee with distinct yellow and black abdominal band pattern and can be found in mixed woodlands, particularly for nesting and overwintering and a variety of pen habitats such as native grasslands, farmland and urban areas. As the Phase One Property is in a rural area, it may provide a viable habitat for these species.

The Snapping Turtle is described by the MNRF as one of Canada's largest freshwater turtles, having a large black, olive or brown shell, and typically live shallow waters and nest overland in gravelly or sandy areas along streams. The Midland Painted Turtle is described by the MNRF as having an olive to black upper shell with red or dark orange markings on the marginal scutes, as well as red and yellow stripes on the head and neck. They can often be found in and around waterbodies such as ponds, marshes, lakes and slow-moving creeks. Due to the Phase One Property being within close proximity to wetlands, woodland and the Erin Branch of the Credit River, the Snapping Turtle and Midland painted turtle may be found within the Phase One Study Area.

The Easter Meadowlark is described by the MNRF as medium sized, migratory songbird with a bright yellow throat and belly, a black "V" on its breast, white flanks with black streaks, and their beaks are

mainly brown with black streaks. The Eastern Meadowvale typically lives in moderately tall grasslands, and can also be found in alfalfa fields, weedy borders of croplands, roadsides, orchards, airports, shrubby overgrown fields, or other open areas. Since the Phase One Property is situated within a rural open area, it may be possible that the Easter Meadowlark may reside within the Phase One Property and Study Area.

The MNRF online mapping system did not identify any Area of Natural and Scientific Interest on the Phase One Property; however, provincially significant wetlands and woodlands are located to the north, east and west of the Site within the Phase One Study Area with provincially significant wetlands located within 30 m of the northwest corner of the Property.

If required, an environmental specialist could be retained to undertake a site-specific ecological assessment, however at this time further assessment is not warranted.

3.2.5 Credit Valley Conservation Authority (CVCA)

According to the Credit Valley Conservation Authority (CVCA) online mapping system, no watercourse is presented on the Property. The Phase One Property is located in the Credit River watershed. The Erin Branch of the Credit River is located approximately 45 m north of the Phase One Property.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs and Historical Mapping

Aerial Photographs for the years 1930, 1946, 1969, 1976, and 1990 were obtained ERIS. The County Atlas of York was reviewed to provide a more historical image from the year 1860 and 1880. Google Earth was used to review satellite imagery from the years 2005, 2012 and 2018. A summary of pertinent information obtained from the aerial photographs reviewed is presented in the Table below. The supporting documents have been appended under Appendix F.

Table 3-4: Summary of Aerial Photographs

Location	Observations	PCA ID No.
1860		
Phase One Property	The north portion of the Phase One Property is owned by an “Edward White” and the south portion is listed as “The Late Dan McMillan”. The Phase One Property is part of larger agricultural parcels. The Credit River is depicted northeast of the Phase One Property.	No PCA
Phase One Study Area	The Phase One Study Area generally consists of agricultural parcels of land. The Credit River is depicted to the northeast of the Phase One Property.	No PCA
1880		
Phase One Property	The north portion of the Phase One Property is owned by “E. White” and the southern portion by “R. Johnston”. The Phase One Property is part of larger agricultural parcels. No structures are indicated on the Phase One Property.	No PCA

Location	Observations	PCA ID No.
Phase One Study Area	The Phase One Area generally consists of agricultural parcels of land with residential dwellings. The Credit River is depicted to the northeast of the Phase One Property.	No PCA
1930		
Phase One Property	The Phase One Property appears to be primarily agricultural land. A driveway from 8 Line leading onto the Phase One Property is visible and two (2) structures, likely a house at the current clubhouse location and a barn to the east, are observed in the southwest corner of the Property.	No PCA
Phase One Study Area	The surrounding properties appear to be used for agricultural purposes. Sideroad 17 is visible north of the Property, and Dundas St. West is visible south of the Phase One Property. Woodland is visible north and east of the Phase One Property.	No PCA
1946		
Phase One Property	The barn structure to the east of the current clubhouse location has been removed.	No PCA
North of Site	Additional roads/pathways are visible northeast of the Phase One Property	No PCA
South, East & West Site	No significant changes.	No PCA
1954		
Phase One Property	A semi-circular driveway appears at the southwestern corner of the Phase One Property and a driveway appears north of the current clubhouse location. Three structures appear to have been constructed corresponding to the locations of the current renal cottages.	No PCA
Phase One Study Area	No significant changes.	No PCA
1969		
Phase One Property	No significant changes.	No PCA
Phase One Study Area	No significant changes.	No PCA
1976		
Phase One Property	The site appears to have been developed into a golf course.	No PCA
East of Site	A network of roads and a clearing is visible south of the site where the current residential development stands.	No PCA
North of Site	A clearing appears in the woodland. Additional residential dwellings appear to have been developed further northeast.	No PCA
South & West	No significant changes.	No PCA
1990		
Phase One Property	No significant changes	No PCA
East of Site	Single residential dwelling appears south of site. Erin Heights Dr is visible south of the Site.	No PCA
North, South & West of Site	No significant changes.	No PCA
2005		
Phase One Property	Multiple residential type like structures is located at the southwestern corner of the Phase One Property	No PCA
Phase One Study Area	No significant changes.	No PCA
2012		
Phase One Property	No significant changes.	No PCA

Location	Observations	PCA ID No.
Phase One Study Area	No significant changes.	No PCA
2018		
Phase One Property	No significant changes.	No PCA
Phase One Study Area	No significant changes.	No PCA

3.3.2 Topography, Hydrology, Geology

The topography of the Phase One Property is undulating with surface elevations ranging from approximately 400 to 430 meters above sea level (masl). The topography within the Phase One Study Area generally slopes to the north towards the Erin branch of the Credit River located approximately 45m north of the Phase One Property. Based on a review of the MECP well records, the depth to groundwater in the vicinity of the Phase One Property is approximately 15 to 66 mbgs. The shallow groundwater flow direction within the Phase One Study Area is inferred to be north towards the Credit River.

The Site is situated within the Guelph Drumlin Field physiographic region characterized by spillways. The Phase One Study area borders drumlinized till plains to the south. The surficial geology within the Phase One Study Area is described as glaciofluvial deposits consisting of river deposits and delta topset facies. The Phase One Study Area borders till consisting of stone-poor, sand silt to silty sand-textured till on Paleozoic terrain to the south. The bedrock is described as “sandstone, shale, dolostone, siltstone of the Armabel formation”. Based on a review of MECP well records, the bedrock in the Phase One Study Area is anticipated to be encountered at depths greater than 30 meters below ground surface (mbgs).

3.3.3 Fill Materials

There are no records of fill materials present on the Phase One Property.

3.3.4 Water Bodies and Areas of Natural Significance

During the site visit, standing water was not observed on the Property. The nearest body of water to the Phase One Property is the Erin Branch of the Credit River, located approximately 45 m north of the northwest corner of the Property. Environmentally Significant Areas are natural areas that have been identified as significant and worthy of protection on three criteria – ecology, hydrology and geology. Municipalities have developed policies to protect natural heritage features. The Region uses Environmentally Significant Areas as a means to protect natural areas like wetlands, fish habitat, woodlands, habitat of rare species, groundwater recharge and discharge areas, and Areas of Natural and Scientific Interest.

The Property includes no Areas of Natural Significance. Additional details are provided in Section 3.2.4 above.

3.3.5 Well Records

The Water Well Information System (WWIR) was also searched as part of the EcoLog ERIS database query. There was one (1) record for the Phase One Property, and nine (9) records within the Phase One Study Area. Seven (7) of the records indicate that the wells are for domestic use. Based on the WWIR, the depth to groundwater within the Phase One Property and Study Area ranges from approximately 15 to 66 mbgs.

3.4 Site Operating Records

The Property includes one (1) main clubhouse, six (6) rental cottages and one (1) maintenance shop. No operating records were available.

4.0 Interviews

4.1 Personnel Interviewed

The following persons with the knowledge of the Property were interviewed or provided the required information.

Table 4-1: Summary of Personnel Interviewed

Date	Name	Affiliation	Position	Method of Interview
May 17 th , 2021	Jim & Dan Holmes	Previous Owner/Current Occupant	N/A	Email Questionnaire

4.2 Interviewee Rationale

Mr. Jim and Dan Holmes are the former property owners and current occupants and are considered to be the most knowledgeable person regarding the historical site operations. The Phase One Interview was conducted by Mr. Keith Clarke., B.Sc. under the supervision of Mr. Rick Fioravanti, B.Sc., P.Geo., QP_{ESA}.

4.3 Results of Interview

The following summarizes the information that was provided by the site representative, based on their knowledge of site activities.

- The Property was previously owned by Derrydale Golf Course Limited.
- The current property owner (5021820 Ontario Inc.) acquired the Phase One Property from Derrydale Golf Course Limited in September 2020.
- The Phase One Property has operated as a Golf Course since the 1970s
- The following pesticides, fungicides and herbicides were reported to have been used for turf maintenance: Killex, Round Up, Rovral, Quintozene, Daconil, Trilogy, Banner, Merrit, Pyrate, Triton, Diazinone, Sevin, Pendant, Dedicate and Instrata. These chemicals are not

environmentally persistent, with half-lives generally ranging from 2 to 200 days. The half-life for Quintozene (pentachloronitrobenzene) was reported to be 120 to 300 days. Pesticides/fungicides/herbicides use is not considered a PCA on the Property.

- The property has not utilized fuel oil.
- A domestic water well is located east adjacent to the clubhouse and a septic bed is located north adjacent to the clubhouse.
- Electrical service for the irrigation Pump House located east of the Property runs underground from 8 Line through the north portion of the Property,
- No environmental activities which may affect the quality in, on or under the Phase One Property were reported.

DS compared the information obtained through the Phase One Interview with the information obtained from the historical records for the Site. The information provided by the interviewee was corroborated by the historical records, as such DS has no concern regarding the accuracy of the information provided.

5.0 Site Reconnaissance

5.1 General Requirements

Table 5-1: Site Reconnaissance Notes

Information	Details
Date of Investigation:	May 6, 2021
Time of Investigation:	9:00 a.m.
Weather Conditions:	15 °C, Clear Skies
Duration of Investigation:	2 Hours
Facility Operation:	Golf Course
Name and Qualification of Person(s) conducting the assessment	Keith Clarke, B.Sc., under the supervision of Rick Fioravanti, B.Sc., P.Geo., QP _{ESA}
Limitations	The rental cottages were not accessible due to safety concerns associated with the COVID-19 Pandemic.

5.2 Specific Observations at Phase One Property

The Site Reconnaissance involved a visual assessment of the Phase One Property for the purpose of identifying potential PCAs, and associated APECs. Photographs of the Phase One Property were taken at the time of the Site Reconnaissance, and have been included under Appendix G.

Table 5-2: Summary of Site Reconnaissance Observations

General	
i. Description of structures and other improvements, including the number and age of buildings	The Property currently includes one (1) two-storey clubhouse (former residential dwelling) with a brick veneer and a basement, six (6) one-storey rental cottage units and one (1) grounds equipment maintenance shop constructed out of wood and with steel panelling. The orientation of the Site Buildings can be found on Figure 2.
ii. Description of the number, age and depth of below-ground structures	A concrete floor basement was present in the clubhouse. The basement contained a well pressure tank, an electric water heater and an electric boiler. A sump pit was observed in the basement. Various items were stored in the basement, including small quantities of cleaning products and paint. Staining and/or cracks were not observed on the basement floor.
iii. Details of all tanks, above and below ground at the Phase One Property, including the material and method of construction of the tank, tank age, tank contents, tank volume, and whether in use or not	<p>One diesel AST and one gasoline AST were located west adjacent to the maintenance shop on the south-central portion of the Site (PCA-1).</p> <p>One diesel AST and a 910 L fuel AST was located east of the maintenance shop within the derelict equipment area. These tanks were reported to have been moved from another property owned by the former property owner and reported to be empty.</p>
iv. Potable and non-potable water sources	The main clubhouse and rental cottages are serviced by a septic system located north adjacent to the clubhouse.
Underground Utilities and Corridors	
i. Type and location of underground utility and service corridors, such as sewer, water, electrical or gas lines located on, in or under the Phase One Property.	Electrical service for the irrigation Pump House located east of the Property runs underground from 8 Line through the north portion of the Property, Underground water service runs from the clubhouse to the cottages and the maintenance shop.
Features of Structures and Buildings at the Phase One Property	
i. Entry and exit points	The entry and exit points to main clubhouse building is in the front, east and west sides of the building. The entry and exit points to the residential dwellings are at the front of the houses. The entry and exit point to the maintenance shop is at the front of the site building.
ii. Details of existing and former heating systems, including type and fuel source	Heating for the Clubhouse is provided by an electric powered boiler.
iii. Details of cooling systems, including type and fuel source, if any	The buildings are currently cooled using electric-powered household air conditioning units generally observed on the side of the Clubhouse and cottages.
iv. Details of any drains, pits and sumps, including their current use, if any, and former use	None observed.
v. Details of any unidentified substances	None observed.

vi.	Details, including locations of stains or corrosion on floors other than from water, where located near a drain, pit, sump, crack or other potential discharge location	Staining was observed on the floor of the maintenance shop.
vii.	Details, including locations, of current and former wells, including all wells described or defined in or under the <i>Ontario Water Resources Act</i> and the <i>Oil, Gas and Salt Resources Act</i>	Four (4) monitoring wells were observed at the time of the site investigation. A water well is located east adjacent to the clubhouse.
viii.	Details of sewage works, including their location	The properties are municipally serviced by a septic system. The septic is located north adjacent to the clubhouse.
ix.	Details of ground surface, including type of ground cover, such as grass, gravel, soil or pavement	The majority of the ground surface on the Phase One Property is covered in grass and turf for the golf course. The property has a semi-circular driveway from 8 Line, and a concrete parking lot extending from 8 Line to the maintenance shop. Gravel is located west and east of the maintenance shop where maintenance equipment is located. Gravel paths are located throughout the golf course.
x.	Details of current or former railway lines or spurs and their locations	None observed.
xi.	Areas of stained soil, vegetation or pavement	None observed.
xii.	Stressed vegetation	None observed.
xiii.	Areas where fill and debris materials appear to have been placed or graded	None observed.
xiv.	Potentially contaminating activity	PCA-1: One diesel AST and one gasoline AST were located west adjacent to the equipment maintenance shop PCA-2: A shop used for the maintenance of golf course grounds maintenance equipment PCA-3: Derelict grounds maintenance equipment was located on the south-central portion of the Site
xv.	Details of any unidentified substances found at the Phase One Property	None observed.
Enhanced Investigation Property		
	Where subsection 13(3) applies to the Phase One Property, provide the documentation referred to in subsection 13(3)	In order to be classified as an enhanced investigation property, the Phase One Property must be used or have been used in whole or in part for any of the following uses: <ul style="list-style-type: none"> ◆ Any industrial use ◆ As a garage ◆ As a bulk liquid dispensing facility, including a gasoline outlet ◆ For the operation of dry-cleaning equipment There is no indication in the historical records of the Phase One Property being used for any of the aforementioned uses, and as such the Phase One Property is not considered an enhanced investigation property.

Hazardous Materials	
i. Asbestos containing materials	Asbestos and asbestos-containing materials were used as insulation and construction materials until being phased out in the late 1970s. Based on the age of some of the site there is the potential for asbestos insulation and asbestos-containing construction materials to be present in the site buildings. Potential asbestos-containing pipe wrap was observed in the basement of the clubhouse.
ii. Lead containing materials	The use of lead as a base in paints and plumbing solder was phased out in the late 1970s. Based on the age of the site buildings, there is the potential for lead containing materials to be present in the site buildings.
iii. PCB materials and equipment	Prior to the mid- to late-1970s, PCBs were used in the manufacture of electrical equipment, including fluorescent light ballasts. Based on the age of some of the site buildings, there is the potential for PCB containing materials to be present in the site buildings.
iv. Urea Formaldehyde Foam Insulation (UFFI)	Urea-Formaldehyde Foam Insulation (UFFI) was introduced in Canada during the 1970s and was banned in 1980. No record of UFFI was available for the subject buildings.
v. Ozone Depleting Substances (ODS)	None observed.
vi. Herbicides and Pesticides	None observed.
vii. Mould	None observed.
viii. Mercury	None observed.
ix. acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, silica, vinyl chloride	None observed.
x. Pits and Lagoons	None observed.
xi. Air Emissions	None observed.
xii. Radioactive Materials & Radon Gas	Based on local geological formations in the area, it is unlikely the site is exposed to natural sources of radiation such as radon or uranium. Manmade sources of radioactive materials were not observed during the site inspection. A radiometric survey was not conducted during this investigation.

5.3 Written Description of Investigation

The site reconnaissance included a visual inspection of the Phase One Property to confirm current conditions and identify any current land uses or activities, which may have or may cause environmental impacts. The adjoining and neighbouring properties were observed from the Phase One Property and publicly accessible areas.

At the time of the Site Reconnaissance the land use within the Phase One Study Area was primarily residential, as described in the table below:

Table 5-3: Summary of Site Reconnaissance Observations within Phase One Study Area

Observation	Details
Phase One Property	The Property currently operates as a golf course and includes one (1) main clubhouse building, six (6) rental cottages and one (1) maintenance shop. The main clubhouse is a two-storey building with a brick veneer and a basement. The cottages are one-storey buildings with a brick veneer. The maintenance shop is made from wood and steel paneling. The Phase One property is located east of 8 Line approximately 400 m south of the intersection of Sideroad 17 and 8 Line.
North Adjacent Property	The north adjacent Property was occupied by woodland and the Credit River runs from east to west, north of the Phase One Property.
South Adjacent Property	The south adjacent properties were occupied by a residential neighbourhood.
West Adjacent Property	The west adjacent Property was occupied by 8 Line and further east by a single residential building, agricultural land and woodland at the time of the site reconnaissance.
East Adjacent Property	The east adjacent Property was vacant woodland.
Water Bodies	the Credit River (West Branch) is located north of the Property, within approximately 45 m of the northwest corner of the Property.
Areas of Natural Significance	None observed.

Photographs illustrating the Phase One Property and adjacent properties are provided under Appendix G. A summary of the potentially contaminating activities observed is provided in Section 6.2. A visual depiction of the PCAs identified within the Phase One Study Area is provided under Figure 4.

6.0 Review and Evaluation of Information

6.1 Current and Past Uses

Current and past uses of the Phase One Property have been inferred based on the information provided in the aerial photographs, chain of title, city directories and conversations with the site representative. Based on the records reviewed, the Phase One Property appears to have been used for agricultural purposes until 1970. The current site buildings on the Phase One Property appear to have been constructed between 1930 and 1976.

6.2 Potentially Contaminating Activity

According to the Table 2, Schedule D, O. Reg. 153/04 as amended, potentially contaminating activities are activities that may be contributing to areas of potential environmental concern on the Phase One Property. The PCAs identified on the Phase One Property and within the Phase One Study Area are summarized in the table below and are illustrated on Figure 4.

Table 6-1: Summary of PCAs

PCA ID No.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Contributing to APEC (Y/N)
PCA-1	#28: Gasoline and Associated Products Storage in Fixed Tanks	One diesel AST and one gasoline AST were located west adjacent to the equipment maintenance shop on the south-central portion of the Site.	Yes – APEC-1
PCA-2	#27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	A shop used for the maintenance of golf course grounds maintenance equipment was located on the south-central portion of the Site.	Yes- APEC-2
PCA-3	#49: Salvage Yard, including automobile wrecking	Derelict grounds maintenance equipment was located on the south-central portion of the Site, east of the maintenance shop.	Yes- APEC-3

6.3 Areas of Potential Environmental Concern

The table of APECs presented in the form as approved by the Director is provided below, in accordance with clause 16(2)(a), Schedule D, O.Reg. 153/04.

Table 6-2: Summary of APECs

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC-1	South-Central portion of the Site, west adjacent to the maintenance shop.	PCA-1: #28: Gasoline and Associated Products Storage in Fixed Tanks	On-Site	VOCs, PHCs, PAHs, metals	Soil and Groundwater
APEC-2	South-Central portion of the Site.	PCA-2: #27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site	VOCs, PHCs, PAHs	Soil and Groundwater
APEC-3	South-Central portion of the Site, east of the maintenance shop.	PCA-3: #49: Salvage Yard, including automobile wrecking	On-Site	Metals, VOCs, PHCs, PAHs	Soil and Groundwater

The rationale used by the QP in assessing the information obtained through the course of this investigation to determine whether PCAs exist and/or are contributing to an APEC on the Phase One Property has been provided in the proceeding sections. In general, the potential for a PCA to be contributing to an APEC on the Phase One Property was assessed using the likelihood of the source to contaminate the Phase One Property, the possibility of the contaminants to migrate to the Phase One Property based on the hydraulic and geologic conditions, and the inherent properties of the contaminants of concern.

The contaminants of potential concern were determined based on the professional experience of the QP, common industry standards, literature reviews, and the inherent properties of the contaminant.

This investigation was conducted based on the assumption that all information provided to DS was factual and accurate. DS is not aware of any uncertainty factors which would affect the conclusions of this investigation.

6.4 Phase One Conceptual Site Model

A Conceptual Site Model was developed for the Phase One Property, located at 5525 8 Line, Erin, Ontario. The Phase One Conceptual Site Model is presented in Drawings 3, 4 and 5 and visually depict the following:

- ◆ Any existing buildings and structures
- ◆ Water bodies located in whole, or in part, on the Phase One Study Area
- ◆ Areas of natural significance located in whole, or in part, on the Phase One Study Area
- ◆ Water wells at the Phase One Property or within the Phase One Study Area
- ◆ Roads, including names, within the Phase One Study Area
- ◆ Uses of properties adjacent to the Phase One Property
- ◆ Areas where any PCAs have occurred, including location of any tanks
- ◆ Areas of Potential Environmental Concern

6.4.1 Potentially Contaminating Activity Affecting the Phase One Property

All PCAs identified within the Phase One Study Area are presented on Figure 4 and discussed in Section 6.2 above. The PCAs which are considered to contribute to APECs on, in or under the Phase One Property are summarized in the table below:

Table 6-3: Summary of PCAs Contributing to APECs

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
PCA-1	#28: Gasoline and Associated Products Storage in Fixed Tanks	One diesel AST and one gasoline AST were located west adjacent to the equipment maintenance shop on the south-central portion of the Site.	PCA is located on the Phase One Property.
PCA-2	#27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	A shop used for the maintenance of golf course grounds maintenance equipment was located on the south-central portion of the Site.	PCA is located on the Phase One Property.
PCA-3	#49: Salvage Yard, including automobile wrecking	Derelict grounds maintenance equipment was located on the south-central portion of the Site, east of the maintenance shop.	PCA is located on the Phase One Property.

6.4.2 Contaminants of Potential Concern

A summary of the contaminants of potential concern identified for each respective APEC is presented in Table 6-2 above. The following contaminants of potential concern were identified for the Phase One Property: Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs and PAHs.

6.4.3 Underground Utilities and Contaminant Distribution and Transport

Underground utilities can affect contaminant distribution and transport. Trenches excavated to install utility services, and the associated granular backfill may provide preferential pathways for horizontal contaminant migration in the shallow subsurface.

Underground utilities were identified at the Phase One Property, including water, electrical, and septic services to the existing Site Buildings. Plans were not available to confirm the depths of these utilities, however they are estimated to be installed at depths ranging from 2 to 3 metres below ground surface.

Based on the WWIR, the depth to groundwater at the Phase One Property and Phase One Study Area is between 15 and 66 mbgs. However, the depth to groundwater at the Phase One Property has not been confirmed, therefore the utility corridors may be below the water table and may act as preferential pathways for contaminant distribution and transport in the event that shallow subsurface contaminants exist at the Phase One Property.

6.4.4 Geological and Hydrogeological Information

The topography of the Phase One Property is undulating with surface elevations ranging from approximately 400 to 430 meters above sea level (masl). The topography within the Phase One Study Area generally slopes to the north towards the Erin branch of the Credit River located approximately 45m north of the Phase One Property. Based on a review of the MECP well records, the depth to groundwater in the vicinity of the Phase One Property is approximately 15 to 66 mbgs. The shallow

groundwater flow direction within the Phase One Study Area is inferred to be north towards the Credit River.

The Site is situated within the Guelph Drumlin Field physiographic region characterized by spillways. The Phase One Study area borders drumlinized till plains to the south. The surficial geology within the Phase One Study Area is described as glaciofluvial deposits consisting of river deposits and delta topset facies. The Phase One Study Area borders till consisting of stone-poor, sand silt to silty sand-textured till on Paleozoic terrain to the south. The bedrock is described as “sandstone, shale, dolostone, siltstone of the Armabel formation”. Based on a review of MECP well records, the bedrock in the Phase One Study Area is anticipated to be encountered at depths greater than 30 meters below ground surface (mbgs).

6.4.5 Uncertainty and Absence of Information

DS has relied upon information obtained from federal, provincial, municipal, and private databases, in addition to records and summaries provided by EcoLog ERIS. All information obtained was reviewed and assessed for consistency, however the conclusions drawn by DS are subject to the nature and accuracy of the records reviewed.

All reasonable inquiries were made to obtain reasonably accessible information, as mandated by O.Reg.153/04 (as amended). All responses to database requests were received prior to completion of this report, with the exception of the MECP FOI request. If the MECP FOI request produces information which may alter the conclusions of this report, an addendum will be provided to the Client. This report reflects the best judgement of DS based on the information available at the time of the investigation.

Information used in this report was evaluated based on proximity to the Phase One Property, anticipated direction of local groundwater flow, and the potential environmental impact on the Phase One Property as a result of potentially contaminating activities.

The QP has determined that the uncertainty does not affect the validity of the Phase One ESA Conceptual Site Model or the conclusions of this report.

7.0 Conclusions

DS conducted a Phase One ESA for the property located at 5525 8 Line, Erin, ON. The Phase One ESA was completed to satisfy the intent of the requirements, methodology and practices for a Phase One ESA as described in Ontario Regulation 153/04 (as amended). The objective of the Phase One ESA was to identify the presence or absence of potentially contaminating activities (PCAs) on the Phase One Property and/or within the Phase One Study Area, and to determine if the PCAs identified within the Phase One Study Area are likely to result in an Area of Potential Environmental Concern (APEC) on the Phase One Property.

Based on the information obtained as part of this investigation, it is concluded that three (3) PCAs were identified within the Phase One Study Area, three (3) of which are considered to be contributing to three (3) APECs on, in or under the Phase One Property. Further investigation in the form of a Phase Two ESA will be required in order to meet the requirements of O.Reg.153/04 (as amended).

7.1 Phase Two Environmental Site Assessment Requirement

A Phase Two ESA will be required to investigate the APECs identified on the Phase One Property.

7.2 RSC Based on Phase One Environmental Site Assessment

Record of Site Condition cannot be filed on the basis of the Phase One ESA due to the identification of Areas of Potential Environmental Concern on the Phase One Property.

7.3 Limitations

This report was prepared for the sole use of Empire Communities and is intended to provide an assessment of the environmental condition on the property located at 5525 8 Line, Erin, Ontario. The information presented in this report is based on information collected during the completion of the Phase One Environmental Site Assessment by DS Consultants Ltd. The material in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or findings, conclusions and recommendations represented herein, is at the sole risk of said users.

The information and conclusions presented in this report are professional opinions in accordance with generally accepted engineering and scientific practices based on a cursory historical search, visual observations and limited information provided by persons knowledgeable about past and current activities on this site. The work completed as per the scope of work is considered sufficient in detail to form a reasonable basis for the findings presented in this report. As such, DS Consultants Ltd. cannot be held responsible for environmental conditions at the site that was not apparent from the available information.

7.4 Qualifications of the Assessors

Ms. Dorothy Garda, M.Sc.

Ms. Garda is a junior hydrogeologist at DS Consultants Ltd. Dorothy holds a Master's in Earth and Environmental Science (Hydrogeology) and has been conducting environmental site assessments since 2018. She is involved in numerous hydrogeological and environmental investigation projects. Her experience includes preparation of Phase One and Two environmental site assessments, construction dewatering activities and hydrogeological investigations in support of Environmental Activity and Sector Registry (EASR) and Permit to Take Water (PTTW) applications.

Mr. Keith Clarke, B.Sc.

Mr. Clarke is a Senior Environmental Project Manager with DS Consultants Limited. Keith holds a Bachelor of Science from the Simon Fraser University and a Post Graduate Certificate in Environmental Engineering Applications from Conestoga College. Keith has over twelve years of environmental consulting experience and has conducted and/or managed numerous projects in his professional experience. Keith has extensive experience conducting Phase One and Phase Two Environmental Site Assessments, soil and groundwater remediation, excess soil movement and supported many risk assessments.

Mr. Patrick (Rick) Fioravanti, B.Sc., P.Geo., QP_{ESA}

Mr. Fioravanti is the Manager of Environmental Services with DS Consultants Limited. Patrick holds an Honours Bachelor of Science with distinction in Toxicology from the University of Guelph and is a practicing member of the Association of Professional Geoscientists of Ontario (APGO). Patrick has over ten years of environmental consulting experience and has conducted and/or managed hundreds of projects in his professional experience. Patrick has extensive experience conducting Phase One and Phase Two Environmental Site Assessments in support of brownfields redevelopment in urban settings, and been involved in numerous remediation projects, supported many risk assessments, and successfully filed Records of Site Condition with the Ministry of Environment, Conservation and Parks. He has conducted work across southern and eastern Ontario, and Quebec in his professional experience. Patrick is considered a Qualified Person to conduct Environmental Site Assessments as defined by Ontario Regulation 153/04 (as amended).

7.5 Signatures

DS Consultants Ltd. conducted this Phase One Environmental Site Assessment and confirms the findings and conclusions contained within this report.

Yours truly,

DS Consultants Ltd.



Dorothy Garda, M.Sc.
Junior Hydrogeologist



Keith Clarke, B.Sc.
Senior Project Manager - Environmental



Patrick Fioravanti, B.Sc., P.Geo., QP_{ESA}
Manager – Environmental Services

8.0 References

- Ontario Regulation 153/04 Records of Site Condition — Part Xv.1 of The Act
- Natural Resources Canada Toporama <http://atlas.gc.ca/toporama/en/index.html>
- Environment Canada, National Pollutant Release Inventory
- Ontario Ministry of the Environment Hazardous Waste Information Network
<https://www.hwin.ca/hwin/>
- Ontario Ministry of the Environment, Certificate of Approval search
- Ontario Ministry of the Environment, Brownfields Environmental Site Registry
<https://www.ontario.ca/page/ministry-environment-and-climate-change>
- Ontario Ministry of the Environment, Inventory of Coal Gasification Plan Waste Sites in Ontario, 1987
- Ontario Ministry of the Environment, Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario, 1998
- Ontario Ministry of the Environment, Inventory of PCB Storage Sites, 1994-2004
- Waste Disposal Site Inventory, 1991
- Ministry of Environment, Conservation and Parks-Freedom of Information
- Technical Standards and Safety Authority – Fuel Safety Division inquiry
- Ontario Geological Survey, 2013. Quaternary Geology of Ontario. Ontario Geological Survey, scale 1:100,000.
- Ontario Ministry of Northern Development and Ontario Geological Survey, 1991. Bedrock Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2544, scale 1:1,000,000.
- Ontario Ministry of Natural Resources. Quaternary Geology of Toronto and Surrounding Area. Scale 1:100,000. Map number 2204.
- Historical Maps, aerial photos and Ontario Base Map
- City Directories from 2001 back to 1900
- Credit River Conservation Authority online-services
- Wellington County Official Plan
- Environmental Risk Information Services (Ecolog ERIS Report)



Figures



Legend

 Approx Property Boundary



DS CONSULTANTS LTD.

6221 Highway 7, UNIT 16
 Vaughan, Ontario L4H 0K8
 Telephone: (905) 264-9393
 www.dsconsultants.ca

Project: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 Erin Heights Golf Course, 5525 8 Line, Erin, ON

Title: **SITE LOCATION PLAN**



Client:
 EMPIRE COMMUNITIES

Size:
 8.5 x 11

Rev:
 0

Approved By: K.C

Scale: As Shown

Image/Map Source: Google Street Map

Drawn By: S.Y

Project No.: 21-129-300

Date: June 2021

Figure No.: 1





Legend

- Approx Property Boundary
- Diesel AST
- Gasoline AST



DS CONSULTANTS LTD.

6221 Highway 7, UNIT 16
 Vaughan, Ontario L4H 0K8
 Telephone: (905) 264-9393
 www.dsconsultants.ca

Client: **EMPIRE COMMUNITIES**

Project: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 Erin Heights Golf Course, 5525 8 Line, Erin, ON

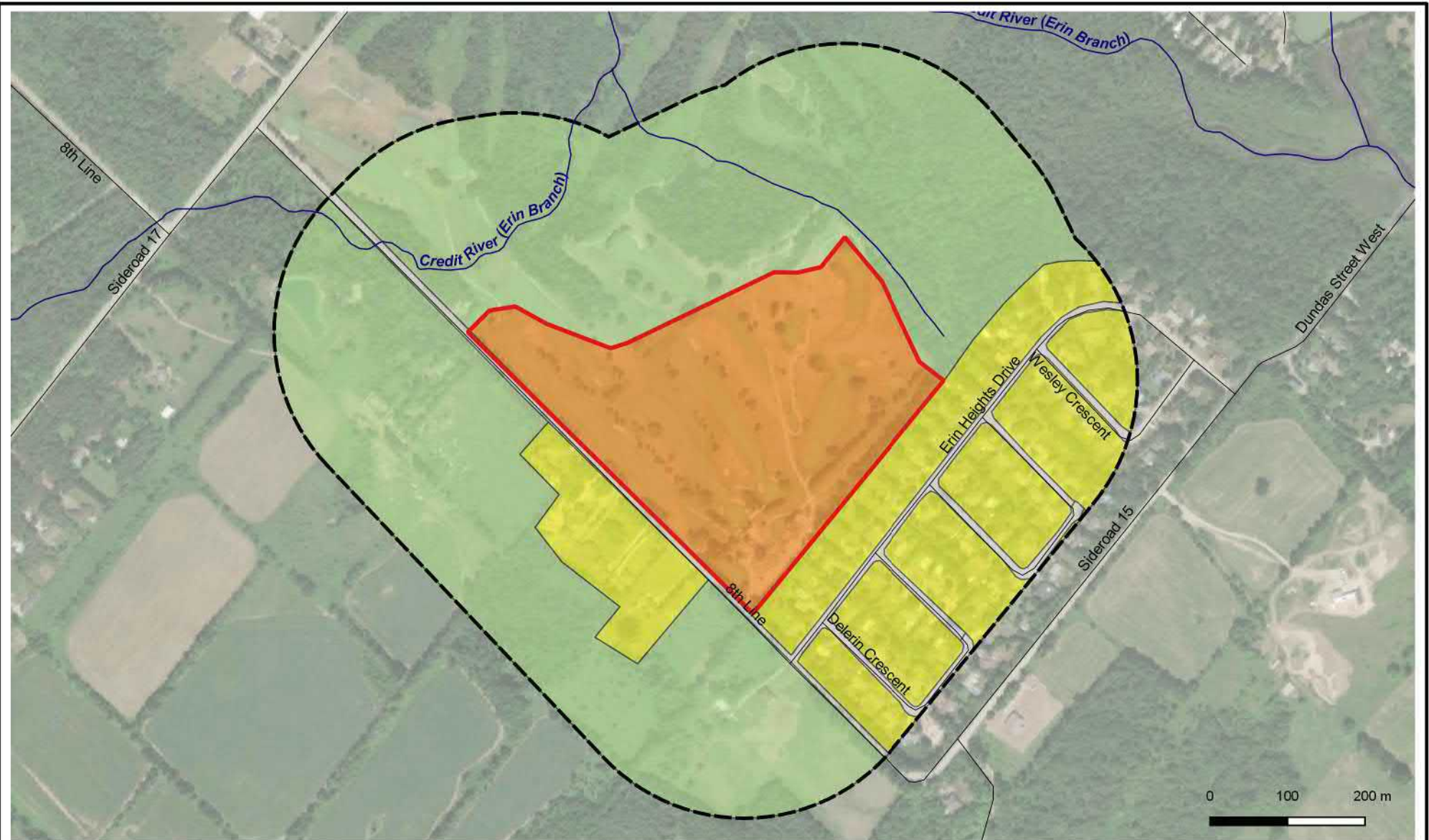
Title: **PHASE ONE PROPERTY SITE PLAN**



Size:	Approved By: K.C	Drawn By: S.Y	Date: June 2021
8.5 x 11			

Rev:	Scale: As Shown	Project No.: 21-129-300	Figure No.: 2
0			

Image/Map Source: Esri Satellite Image



Legend

- Approx Property Boundary
- Residential
- Commercial
- Open Space



DS CONSULTANTS LTD.

6221 Highway 7, UNIT 16
 Vaughan, Ontario L4H 0K8
 Telephone: (905) 264-9393
 www.dsconsultants.ca

Client: **EMPIRE COMMUNITIES**

Project: **PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 Erin Heights Golf Course, 5525 8 Line, Erin, ON**

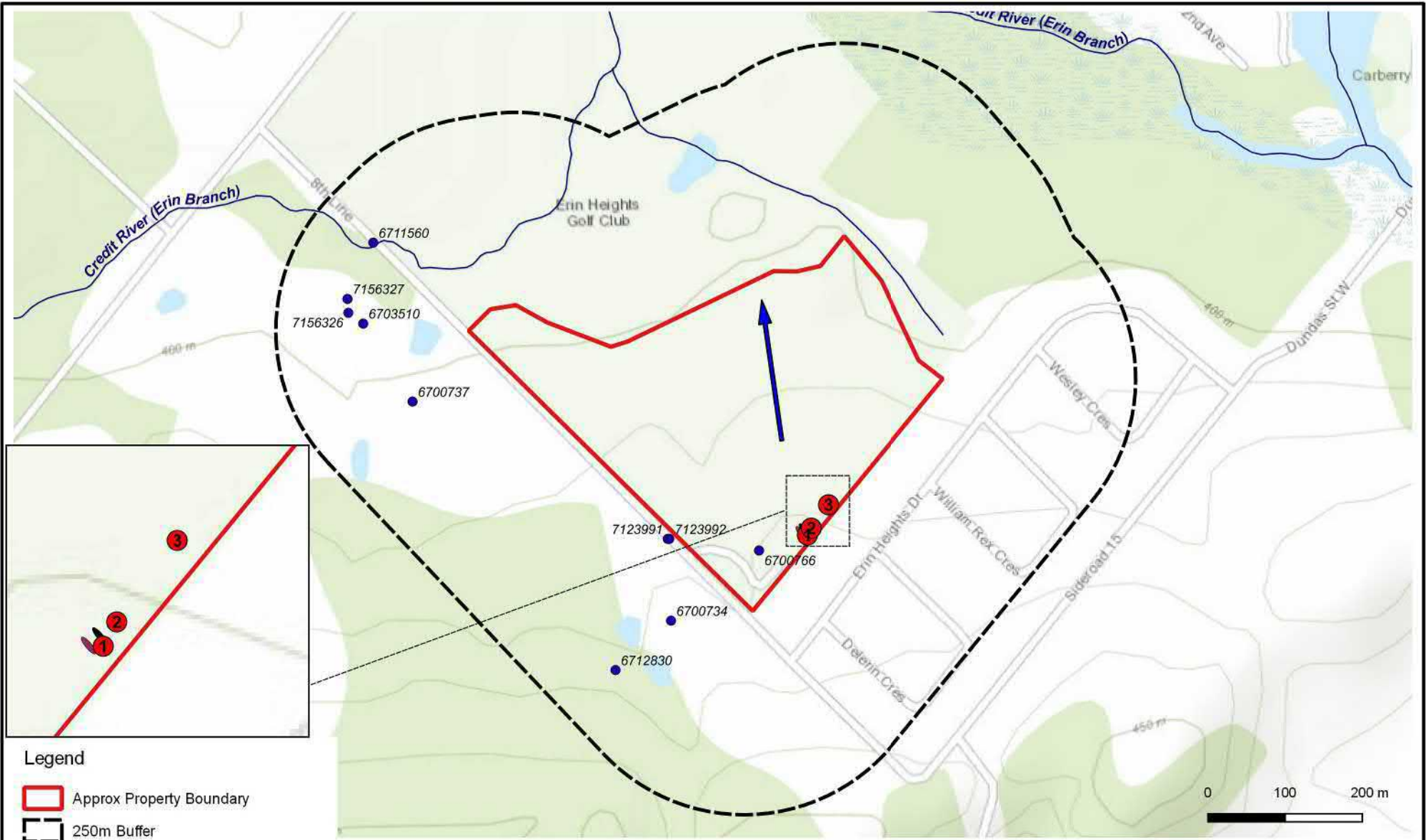
Title: PHASE ONE STUDY AREA



Size: 8.5 x 11	Approved By: K.C	Drawn By: S.Y	Date: June 2021
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Rev: 0	Scale: As Shown	Project No.: 21-129-300	Figure No.: 3
-----------	------------------------	--------------------------------	----------------------

Image/Map Source: *Esri Satellite Image*



Legend

- Approx Property Boundary
- 250m Buffer
- Inferred Groundwater Flow Direction
- Registered Water Well (MECP WWR)
- PCA contributing to APEC
- PCA not contributing to APEC
- Diesel AST
- Gasoline AST

 DS CONSULTANTS LTD. 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca	Project: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, 5525 8 Line, Erin, ON			
	Title: PCA WITHIN PHASE ONE STUDY AREA			
Client: EMPIRE COMMUNITIES	Size: 8.5 x 11	Approved By: K.C	Drawn By: S.Y	Date: June 2021
	Rev: 0	Scale: As Shown	Project No.: 21-129-300	Figure No.: 4
Image/Map Source: Esri Topo Map				



Legend

- Approx Property Boundary
- APEC 1
- APEC 2
- APEC 3
- Diesel AST
- Gasoline AST

DS CONSULTANTS LTD.
 6221 Highway 7, UNIT 16
 Vaughan, Ontario L4H 0K8
 Telephone: (905) 264-9393
 www.dsconsultants.ca

Client: **EMPIRE COMMUNITIES**

Project: **PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 Erin Heights Golf Course, 5525 8 Line, Erin, ON**

Title: **SUMMARY OF APECs ON PHASE ONE PROPERTY**

Size: 8.5 x 11	Approved By: K.C	Drawn By: S.Y	Date: June 2021
Rev: 0	Scale: As Shown	Project No.: 21-129-300	Figure No.: 5

Image/Map Source: Esri Satellite Image





Appendix A

**PLAN OF SURVEY AND TOPOGRAPHY
OF PART OF LOT 19,
REGISTRAR'S COMPILED PLAN 686
(FORMERLY VILLAGE OF ERIN)
TOWN OF ERIN
COUNTY OF WELLINGTON**

SCALE 1:750
R-PE SURVEYING LTD., O.L.S.
DISTANCES AND COORDINATES SHOWN ON THIS PLAN
ARE IN METRES AND CAN BE CONVERTED TO FEET BY
DIVIDING BY 0.3048.

BENCHMARK NOTE

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO FIRST ORDER VERTICAL BENCHMARK NUMBER 00819798463 HAVING AN ORTHOMETRIC ELEVATION OF 394.056 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).

TABLET SET HORIZONTALLY IN THE NORTH FACE OF THE CONCRETE FOUNDATION OF A GREY BUILDING (GREENING DONALD CO LTD) ON THE EAST SIDE OF HWY 24, 1.55 KM NORTH OF THE POST OFFICE AT ERIN, 0.30 KM SOUTH OF WELLINGTON CITY RD 23 AND 109.5 M EAST OF THE CENTRELINE OF HWY 24, 1.52 M WEST OF N.E. CORNER OF SAID BUILDING, 7 CM BELOW CONCRETE SIDING AND 7 CM ABOVE GROUND LEVEL.

INTEGRATION NOTE

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS (A), (B), (C) AND D USING CANNET REAL TIME NETWORK (RTN) No. PRS262047042104, UTM ZONE 17, NAD83 (CSRS) (CBNV6-2010.0)

COORDINATES ARE UTM ZONE 17, NAD83 (CSRS) (CBNV6-2010.0), TO URBAN ACCURACY PER SEC. 14 (2) OF O.REG. 216/10, AND CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.9996116.

POINT ID	NORTHING	EASTING
ORP (A)	4846402.20	573401.74
ORP (B)	4846807.71	573343.54
ORP (C)	4846916.54	573818.94
RTN PRS262047042104	4849491.52	574945.16

NOTES

- DENOTES MONUMENT FOUND
- ▣ DENOTES STANDARD IRON BAR
- ▢ DENOTES SHORT STANDARD IRON BAR
- ▧ DENOTES IRON BAR
- DENOTES OBSERVED REFERENCE POINT
- P.I.N. DENOTES PROPERTY IDENTIFIER NUMBER
- PL1 DENOTES PLAN 61R-21828
- PL2 DENOTES PLAN 61R-5882
- PL3 DENOTES PLAN REGISTERED PLAN 652
- (VH) DENOTES VAN HARTEN SURVEYING INC., O.L.S. (1254)
- DENOTES CLIPSHAM LTD., O.L.S.

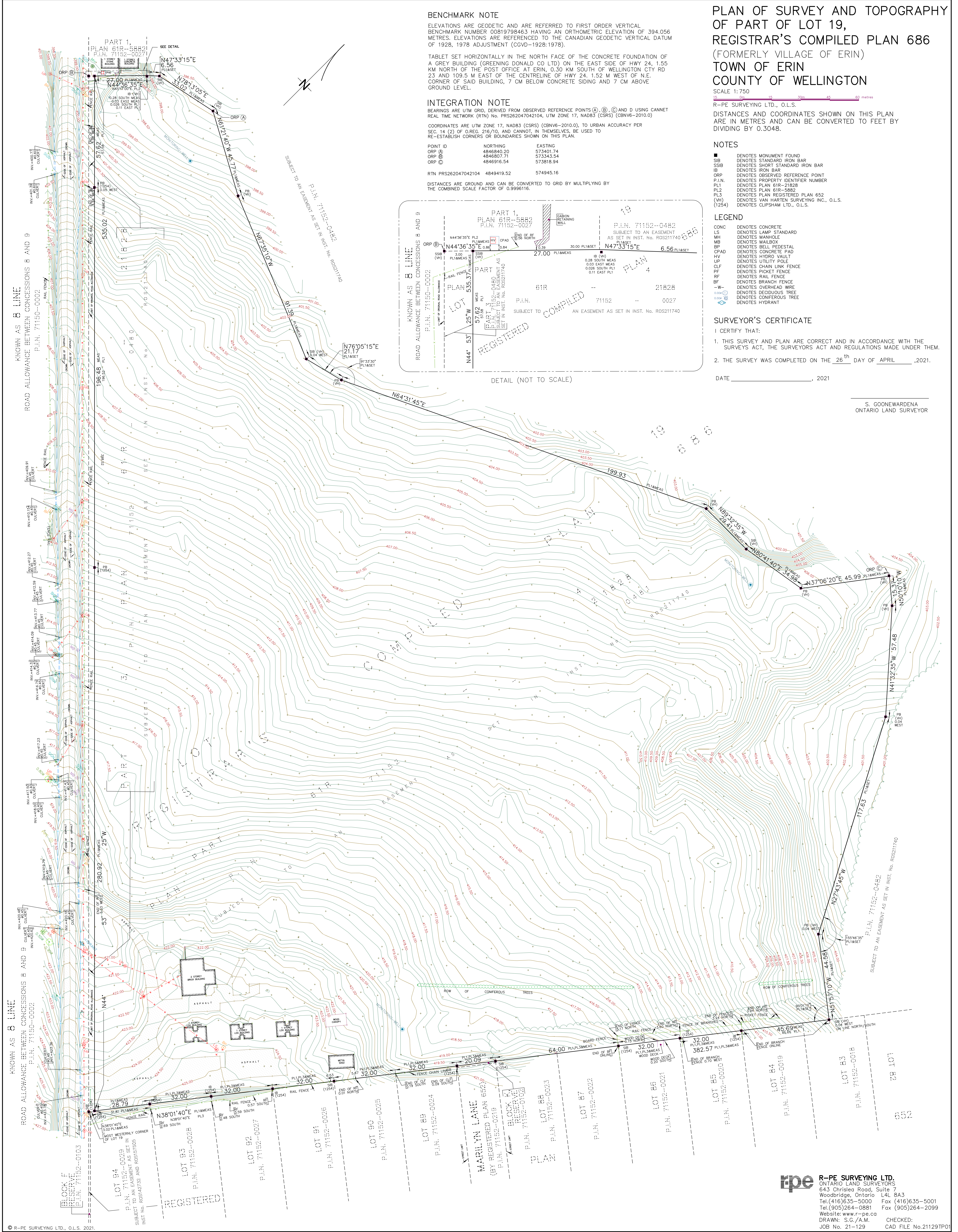
LEGEND

- CONC DENOTES CONCRETE
- LS DENOTES LAMP STANDARD
- MH DENOTES MANHOLE
- MB DENOTES MAILBOX
- SP DENOTES BELL PEDESTAL
- CPAD DENOTES CONCRETE PAD
- HV DENOTES HYDRO VAULT
- UP DENOTES UTILITY POLE
- CLF DENOTES CHAIN LINK FENCE
- PF DENOTES PICKET FENCE
- RF DENOTES RAIL FENCE
- BF DENOTES BRANCH FENCE
- W- DENOTES OVERHEAD WIRE
- DENOTES DECIDUOUS TREE
- DENOTES CONIFEROUS TREE
- DENOTES HYDRANT

SURVEYOR'S CERTIFICATE

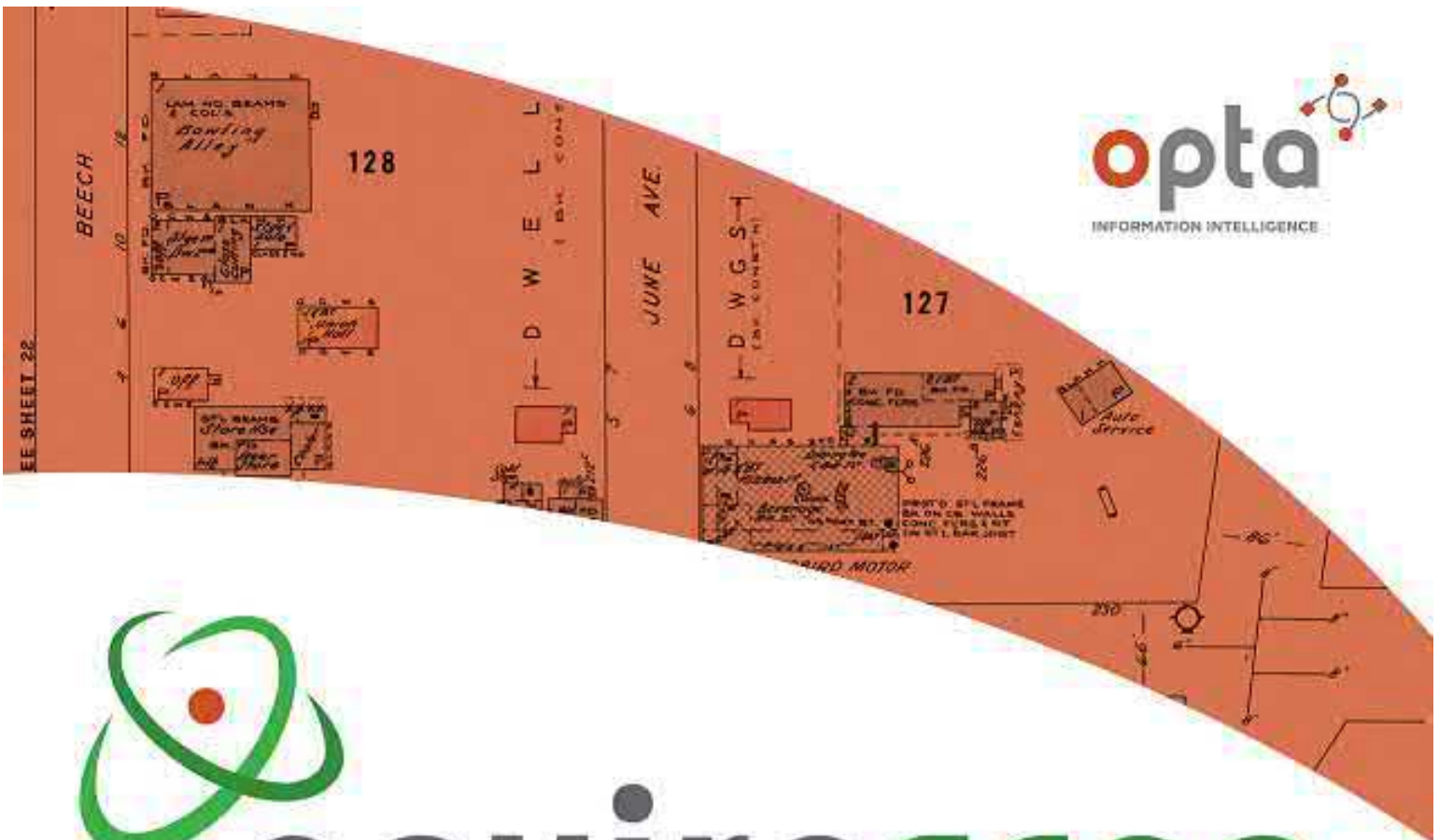
I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 26th DAY OF APRIL, 2021.
DATE _____, 2021

S. GOONEWARDENA
ONTARIO LAND SURVEYOR





Appendix B



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Sunita

Site Address:

5525 8 LineErin Ont

Project No:

21043000536

Opta Order ID:

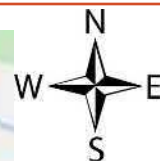
89913

Requested by:

Eleanor Goolab
ERIS

Date Completed:

5/7/2021 8:05:38 AM



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Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.



175 Commerce Valley Drive W
Markham, Ontario
L3T 7Z3

T: 905.882.6300
Toll Free: 905.882.6300
F: 905.882.6300

An SCM Company
www.optaintel.ca

Page: 4

Project Name: Erin Heights Golf Course

Project #: 21043000536

P.O. #: 21129300

ENVIROSCAN Report

No Records Found

Requested by:

Eleanor Goolab

Date Completed: 05/07/2021 08:05:38



OPTA INFORMATION INTELLIGENCE

No Records Found

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Appendix C

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: 5525 8 Line, Erin, Ontario
Report Type: City Directory
Order No: 21050700701
Information Source:
Date Completed: 21/05/2021

Note addendum regarding documentation results

City Directory Information Source

PROJECT NUMBER: 21050700701	
Site Address:	5525 8 Line, Erin, Ontario
Year:	
Site Listing:	-Information Inaccessible
Adjacent Properties:	
8 Line (5500-5590)	-Information Inaccessible
Delerin Crescent (All)	-Information Inaccessible
Erin Heights Drive (5-50)	-Information Inaccessible
Sideroad 17 (9495-9575)	-Information Inaccessible
Wesley Crescent (All)	-Information Inaccessible
William Rex Crescent (All)	-Information Inaccessible

-All listings for businesses were listed as they are in the city directory.



-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.

*****Due to unforeseen circumstances resulting from the Covid-19 pandemic of 2020, access to information sources has been prohibited. While all additional measures were undertaken in order to provide accurate information where possible, some project searches yielded no results*****



Appendix D



DATABASE REPORT

Project Property: *Erin Heights Golf Course
5525 8 Line
Erin ON N0B 1T0*

Project No: *21-129-300*

Report Type: *Quote - Custom-Build Your Own Report*

Order No: *21043000536*

Requested by: *DS Consultants Ltd.*

Date Completed: *May 5, 2021*

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Executive Summary

Property Information:

Project Property: *Erin Heights Golf Course
5525 8 Line Erin ON N0B 1T0*

Project No: *21-129-300*

Order Information:

Order No: *21043000536*
Date Requested: *April 30, 2021*
Requested by: *DS Consultants Ltd.*
Report Type: *Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs *Aerials - National Collection*
City Directory Search *CD - Subject Site plus 250m Radius*
Insurance Products *Fire Insurance Maps/Inspection Reports/Site Plans*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</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	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	1	2	3
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	1	1
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
NPRI	<i>National Pollutant Release Inventory</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
PINC	<i>Pipeline Incidents</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	1	0	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	0	0
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	1	9	10
Total:			3	12	15

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>
1	PTTW	Derrydale Golf Course Ltd.	5525 Eighth Line, R.R.2 Erin Ontario ERIN ON	S/0.0	9.08	14
1	EHS		5525 8th Line Erin ON NOB 1T0	S/0.0	9.08	14
2	WWIS		ON <i>Well ID:</i> 6700766	SSE/0.0	11.45	14

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	WWIS		lot 18 con 9 ON Well ID: 7123992	SSW/5.7	6.65	17
4	WWIS		lot 16 con 8 ON Well ID: 7123991	SSW/7.1	6.65	21
5	INC		5487 Eighth Line, Halton Hills ON	SSE/58.4	15.27	25
6	WWIS		lot 16 con 8 ON Well ID: 6700734	SSW/79.2	13.66	26
7	EHS		5520 8 Line Erin ON N0B 1T0	SSE/95.3	17.86	30
7	EHS		5520 8 Line Erin ON N0B 1T0	SSE/95.3	17.86	30
8	WWIS		lot 17 con 8 ON Well ID: 6700737	W/114.3	-8.01	30
9	WWIS		lot 17 con 8 ON Well ID: 6703510	W/126.5	-12.01	33
10	WWIS		5570 8TH LINE lot 17 con 8 ERIN ON Well ID: 7156326	W/146.7	-12.01	36
11	WWIS		WELLINGTON lot 17 con 8 ERIN ON Well ID: 7156327	WNW/150.7	-13.68	38
12	WWIS		lot 17 con 8 ON Well ID: 6711560	WNW/156.0	-14.98	39
13	WWIS		lot 16 con 8 ON	SSW/175.3	14.65	43

<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>
--------------------	-----------	--------------------------	----------------	---------------------	--------------------------	------------------------

Well ID: 6712830

Executive Summary: Summary By Data Source

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2021 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	5525 8th Line Erin ON NOB 1T0	0.0	<u>1</u>
	5520 8 Line Erin ON NOB 1T0	95.3	<u>7</u>
	5520 8 Line Erin ON NOB 1T0	95.3	<u>7</u>

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated Jul 31, 2020 has found that there are 1 INC site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	5487 Eighth Line, Halton Hills ON	58.4	<u>5</u>

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994-Mar 31, 2021 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Derrydale Golf Course Ltd.	5525 Eighth Line, R.R.2 Erin Ontario ERIN ON	0.0	<u>1</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 10 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON <i>Well ID:</i> 6700766	0.0	<u>2</u>
	lot 18 con 9 ON <i>Well ID:</i> 7123992	5.7	<u>3</u>
	lot 16 con 8 ON <i>Well ID:</i> 7123991	7.1	<u>4</u>
	lot 16 con 8 ON <i>Well ID:</i> 6700734	79.2	<u>6</u>
	lot 17 con 8 ON <i>Well ID:</i> 6700737	114.3	<u>8</u>
	lot 17 con 8 ON <i>Well ID:</i> 6703510	126.5	<u>9</u>
	5570 8TH LINE lot 17 con 8 ERIN ON <i>Well ID:</i> 7156326	146.7	<u>10</u>
	WELLINGTON lot 17 con 8 ERIN ON <i>Well ID:</i> 7156327	150.7	<u>11</u>
	lot 17 con 8 ON <i>Well ID:</i> 6711560	156.0	<u>12</u>
	lot 16 con 8 ON <i>Well ID:</i> 6712830	175.3	<u>13</u>



Map: 0.25 Kilometer Radius

Order Number: 21043000536

Address: 5525 8 Line, Erin, ON



Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail	Ferry Route/Ice Road	Other Recreation Area
	Proposed Road		



Aerial Year: 2018

Order Number: 21043000536

Address: 5525 8 Line, Erin, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership

80°6'W

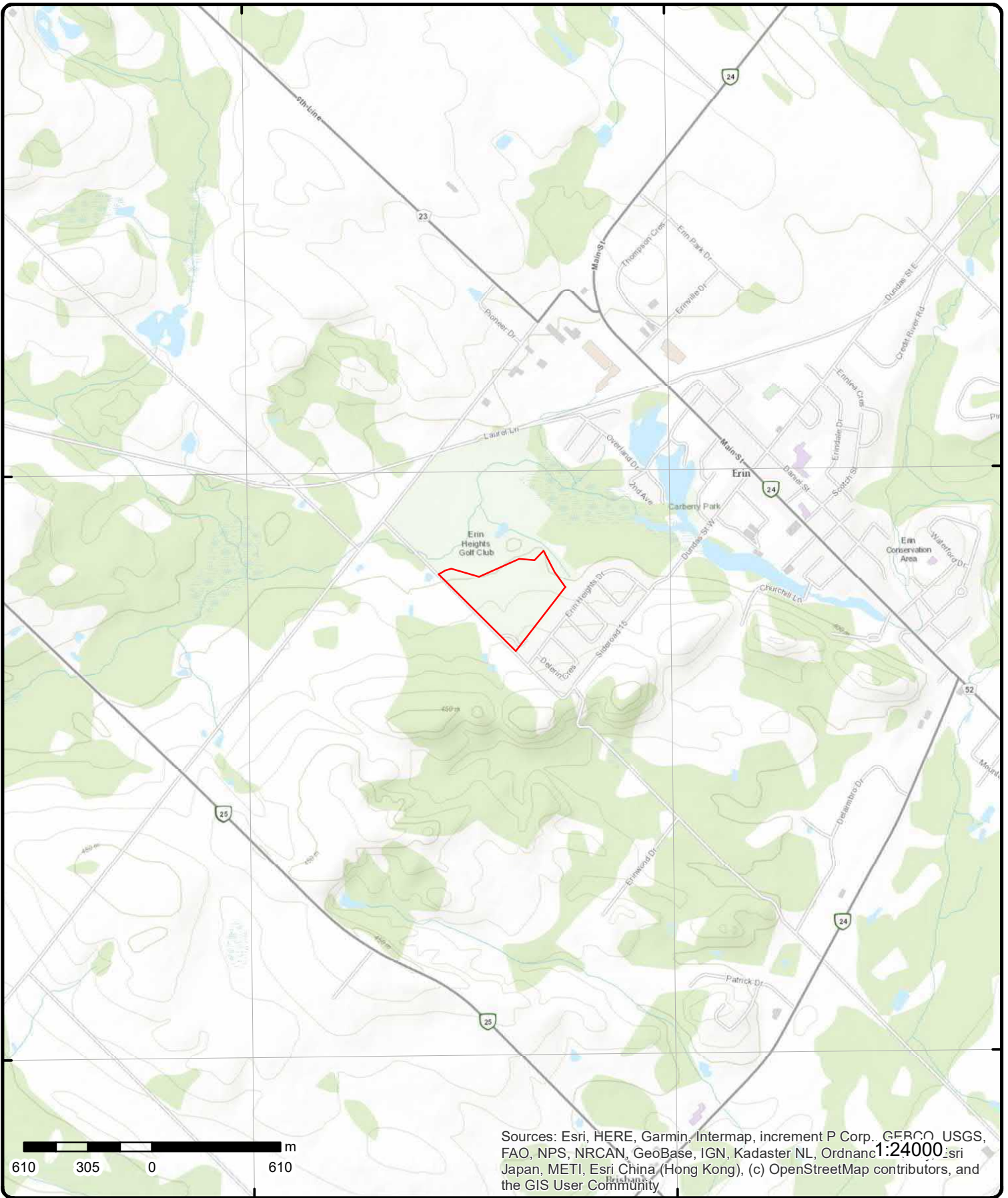
80°4'30"W

43°46'30"N

43°46'30"N

43°45'N

43°45'N



Topographic Map

Address: 5525 8 Line, ON

Source: ESRI World Topographic Map

Order Number: 21043000536



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	S/0.0	419.6 / 9.08	Derrydale Golf Course Ltd. 5525 Eighth Line, R.R.2 Erin Ontario ERIN ON	PTTW
EBR Registry No: IA06E1418 Ministry Ref No: 3587-6VKQ64 Notice Type: Instrument Decision Notice Stage: Notice Date: February 23, 2007 Proposal Date: November 15, 2006 Year: 2006 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Derrydale Golf Course Ltd. Site Address: Location Other: Proponent Name: Proponent Address: 185 Derry Road West, Mississauga Ontario, L5M 2B5 Comment Period: URL:		Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:			
Site Location Details: 5525 Eighth Line, R.R.2 Erin Ontario ERIN					
1	2 of 2	S/0.0	419.6 / 9.08	5525 8th Line Erin ON NOB 1T0	EHS
Order No: 20191022175 Status: C Report Type: Standard Report Report Date: 25-OCT-19 Date Received: 22-OCT-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: Aerial Photos		Nearest Intersection: Municipality: ERIN Client Prov/State: ON Search Radius (km): .25 X: -80.084211 Y: 43.768061			
2	1 of 1	SSE/0.0	422.0 / 11.45	ON	WWIS
Well ID: 6700766 Construction Date: Primary Water Use: Commerical Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction		Data Entry Status: Data Src: 1 Date Received: 5/27/1963 Selected Flag: Yes Abandonment Rec: Contractor: 3316 Form Version: 1 Owner: Street Name: County: WELLINGTON			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method:					
Elevation (m):				Municipality:	ERIN VILLAGE
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6700766.pdf			

Bore Hole Information

Bore Hole ID:	10464912	Elevation:	423.960052
DP2BR:	138	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	573727.3
Code OB Desc:	Bedrock	North83:	4846509
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	4/25/1963	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID:	932606004
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	138
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	932606005
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	138

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		218			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966700766			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11013482			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930755592			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		142			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930755593			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		218			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996700766			
Pump Set At:					
Static Level:		53			
Final Level After Pumping:		55			
Recommended Pump Depth:		90			
Pumping Rate:		10			
Flowing Rate:					
Recommended Pump Rate:		12			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Details					
Water ID:		933952901			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		217			
Water Found Depth UOM:		ft			

3	1 of 1	SSW/5.7	417.2 / 6.65	lot 18 con 9 ON	WWIS
Well ID:	7123992			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	6/8/2009
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Observation Wells			Abandonment Rec:	
Water Type:				Contractor:	7154
Casing Material:				Form Version:	7
Audit No:	Z89738			Owner:	
Tag:	A073327			Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	ERIN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	018
Well Depth:				Concession:	09
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/712\7123992.pdf

Bore Hole Information

Bore Hole ID:	1002457929	Elevation:	420.061645
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	573611
Code OB Desc:		North83:	4846524
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	5
Date Completed:	3/26/2009	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002608042
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		27			
Formation End Depth:		32			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002608044			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		117			
Formation End Depth:		150			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002608043			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		32			
Formation End Depth:		117			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002608041			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:		84			
Mat3 Desc:		SILTY			
Formation Top Depth:		0			
Formation End Depth:		27			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1002608047			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:	1				
Plug From:	0				
Plug To:	34				
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	1002608059				
Method Construction Code:	2				
Method Construction:	Rotary (Convent.)				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	1002608039				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1002608051				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:	0				
Depth To:	34				
Casing Diameter:	4.25				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Casing</u>					
Casing ID:	1002608052				
Layer:	2				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:	34				
Depth To:	150				
Casing Diameter:	4				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Screen</u>					
Screen ID:	1002608053				
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:	ft				
Screen Diameter UOM:	inch				
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:	1002608040				
Pump Set At:	25				
Static Level:	8				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Final Level After Pumping:	9				
Recommended Pump Depth:					
Pumping Rate:	10				
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:	1				
Water State After Test:	CLEAR				
Pumping Test Method:	0				
Pumping Duration HR:	1				
Pumping Duration MIN:	0				
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	1002608055				
Test Type:	Recovery				
Test Duration:	5				
Test Level:	8				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	1002608057				
Test Type:	Recovery				
Test Duration:	60				
Test Level:	8				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	1002608054				
Test Type:	Draw Down				
Test Duration:	5				
Test Level:	9				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	1002608056				
Test Type:	Draw Down				
Test Duration:	60				
Test Level:	9				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:	1002608048				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	87				
Water Found Depth UOM:	ft				
<u>Water Details</u>					
Water ID:	1002608049				
Layer:	2				
Kind Code:	1				
Kind:	FRESH				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth:		101			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		1002608050			
Layer:		3			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		112			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1002608046			
Diameter:		4			
Depth From:		34			
Depth To:		150			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>Hole Diameter</u>					
Hole ID:		1002608045			
Diameter:		8			
Depth From:		0			
Depth To:		34			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

4	1 of 1	SSW/7.1	417.2 / 6.65	lot 16 con 8 ON	WWIS
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Well ID:	7123991	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring	Date Received:	6/8/2009
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	7154
Casing Material:		Form Version:	7
Audit No:	Z89737	Owner:	
Tag:	A073328	Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	ERIN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	016
Well Depth:		Concession:	08
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/712\7123991.pdf

Bore Hole Information

Bore Hole ID:	1002457926	Elevation:	420.060058
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	573609

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB Desc:				North83:	4846524
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	3/27/2009			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock
Materials Interval

Formation ID: 1002608005
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3: 84
Mat3 Desc: SILTY
Formation Top Depth: 0
Formation End Depth: 37
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 1002608008
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 147
Formation End Depth: 197
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 1002608007
Layer: 3
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 103
Formation End Depth: 147
Formation End Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1002608006			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		37			
Formation End Depth:		103			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1002608011			
Layer:		1			
Plug From:		0			
Plug To:		105			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1002608023			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1002608003			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1002608015			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		105			
Casing Diameter:		4.25			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		1002608016			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		105			
Depth To:		197			

<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>Casing Diameter:</i>		4			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Construction Record - Screen</u>					
<i>Screen ID:</i>		1002608017			
<i>Layer:</i>					
<i>Slot:</i>					
<i>Screen Top Depth:</i>					
<i>Screen End Depth:</i>					
<i>Screen Material:</i>					
<i>Screen Depth UOM:</i>		ft			
<i>Screen Diameter UOM:</i>		inch			
<i>Screen Diameter:</i>					
<u>Results of Well Yield Testing</u>					
<i>Pump Test ID:</i>		1002608004			
<i>Pump Set At:</i>		75			
<i>Static Level:</i>		54			
<i>Final Level After Pumping:</i>					
<i>Recommended Pump Depth:</i>					
<i>Pumping Rate:</i>		10			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>					
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			
<i>Pumping Test Method:</i>		0			
<i>Pumping Duration HR:</i>		1			
<i>Pumping Duration MIN:</i>		0			
<i>Flowing:</i>					
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1002608020			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		55			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1002608021			
<i>Test Type:</i>		Recovery			
<i>Test Duration:</i>		60			
<i>Test Level:</i>		54			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		1002608018			
<i>Test Type:</i>		Draw Down			
<i>Test Duration:</i>		5			
<i>Test Level:</i>		55			
<i>Test Level UOM:</i>		ft			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID: 1002608019					
Test Type: Recovery					
Test Duration: 5					
Test Level: 54					
Test Level UOM: ft					
<u>Water Details</u>					
Water ID: 1002608013					
Layer: 2					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 154					
Water Found Depth UOM: ft					
<u>Water Details</u>					
Water ID: 1002608012					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 136					
Water Found Depth UOM: ft					
<u>Water Details</u>					
Water ID: 1002608014					
Layer: 3					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 174					
Water Found Depth UOM: ft					
<u>Hole Diameter</u>					
Hole ID: 1002608009					
Diameter: 8					
Depth From: 0					
Depth To: 105					
Hole Depth UOM: ft					
Hole Diameter UOM: inch					
<u>Hole Diameter</u>					
Hole ID: 1002608010					
Diameter: 4					
Depth From: 105					
Depth To: 197					
Hole Depth UOM: ft					
Hole Diameter UOM: inch					

5	1 of 1	SSE/58.4	425.8 / 15.27	5487 Eighth Line, Halton Hills ON	INC
Incident No:	948698			Any Health Impact:	No
Incident ID:	3106824			Any Enviro Impact:	Unknown
Instance No:				Service Interrupted:	No
Status Code:	Open L1 Incident Inspection			Was Prop Damaged:	No
Attribute Category:	FS-Perform L1 Incident Insp			Reside App. Type:	
Context:				Commer App. Type:	
Date of Occurrence:	2012/11/21 00:00:00			Indus App. Type:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Time of Occurrence:	14:56:00			Institut App. Type:	
Incident Created On:				Venting Type:	
Instance Creation Dt:				Vent Conn Mater:	
Instance Install Dt:				Vent Chimney Mater:	
Occur Insp Start Date:	2012/11/23 00:00:00			Pipeline Type:	
Approx Quant Rel:	unknown			Pipeline Involved:	
Tank Capacity:				Pipe Material:	
Fuels Occur Type:	Leak			Depth Ground Cover:	
Fuel Type Involved:	Fuel Oil			Regulator Location:	
Enforcement Policy:	NULL			Regulator Type:	
Prc Escalation Req:	NULL			Operation Pressure:	
Tank Material Type:				Liquid Prop Make:	
Tank Storage Type:				Liquid Prop Model:	
Tank Location Type:				Liquid Prop Serial No:	
Pump Flow Rate Cap:				Liquid Prop Notes:	
Task No:	4184770			Equipment Type:	
Notes:				Equipment Model:	
Drainage System:	Unknown			Serial No:	
Sub Surface Contam.:	to be determined			Cylinder Capacity:	
Aff Prop Use Water:	Unknown			Cylinder Cap Units:	
Contam. Migrated:	Unknown			Cylinder Mat Type:	
Contact Natural Env:	Unknown			Near Body of Water:	Unknown
Incident Location:		5487 Eighth Line, Halton Hills - Leak			
Occurrence Narrative:		Leak from compression fitting			
Operation Type Involved:		Private Dwelling			
Item:					
Item Description:					
Device Installed Location:					

<u>6</u>	1 of 1	SSW/79.2	424.2 / 13.66	lot 16 con 8 ON	WWIS
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Well ID:	6700734			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Livestock			Date Received:	8/9/1963
Sec. Water Use:	Domestic			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	2406
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	ERIN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	08
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6700734.pdf

Bore Hole Information

Bore Hole ID:	10464880			Elevation:	427.13504
DP2BR:	169			Elevrc:	
Spatial Status:				Zone:	17
Code OB:	r			East83:	573613.3
Code OB Desc:	Bedrock			North83:	4846418
Open Hole:				Org CS:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	5
Date Completed:	8/6/1963			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932605873			
Layer:		4			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		70			
Formation End Depth:		83			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932605871			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		2			
Formation End Depth:		55			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932605872			
Layer:		3			
Color:					
General Color:					
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		55			
Formation End Depth:		70			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:			932605870		
Layer:			1		
Color:					
General Color:					
Mat1:			02		
Most Common Material:			TOPSOIL		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			0		
Formation End Depth:			2		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932605876		
Layer:			7		
Color:					
General Color:					
Mat1:			11		
Most Common Material:			GRAVEL		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			168		
Formation End Depth:			169		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932605874		
Layer:			5		
Color:			6		
General Color:			BROWN		
Mat1:			08		
Most Common Material:			FINE SAND		
Mat2:			06		
Mat2 Desc:			SILT		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			83		
Formation End Depth:			105		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:			932605877		
Layer:			8		
Color:			2		
General Color:			GREY		
Mat1:			26		
Most Common Material:			ROCK		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					

<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>Formation Top Depth:</i>		169			
<i>Formation End Depth:</i>		170			
<i>Formation End Depth UOM:</i>		ft			
<u>Overburden and Bedrock Materials Interval</u>					
<i>Formation ID:</i>		932605875			
<i>Layer:</i>		6			
<i>Color:</i>		2			
<i>General Color:</i>		GREY			
<i>Mat1:</i>		08			
<i>Most Common Material:</i>		FINE SAND			
<i>Mat2:</i>		06			
<i>Mat2 Desc:</i>		SILT			
<i>Mat3:</i>		05			
<i>Mat3 Desc:</i>		CLAY			
<i>Formation Top Depth:</i>		105			
<i>Formation End Depth:</i>		168			
<i>Formation End Depth UOM:</i>		ft			
<u>Method of Construction & Well Use</u>					
<i>Method Construction ID:</i>		966700734			
<i>Method Construction Code:</i>		1			
<i>Method Construction:</i>		Cable Tool			
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>		11013450			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930755530			
<i>Layer:</i>		1			
<i>Material:</i>		1			
<i>Open Hole or Material:</i>		STEEL			
<i>Depth From:</i>					
<i>Depth To:</i>		170			
<i>Casing Diameter:</i>		5			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Results of Well Yield Testing</u>					
<i>Pump Test ID:</i>		996700734			
<i>Pump Set At:</i>					
<i>Static Level:</i>		105			
<i>Final Level After Pumping:</i>		110			
<i>Recommended Pump Depth:</i>		125			
<i>Pumping Rate:</i>		10			
<i>Flowing Rate:</i>					
<i>Recommended Pump Rate:</i>		6			
<i>Levels UOM:</i>		ft			
<i>Rate UOM:</i>		GPM			
<i>Water State After Test Code:</i>		1			
<i>Water State After Test:</i>		CLEAR			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Test Method:		1			
Pumping Duration HR:		6			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933952864			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		170			
Water Found Depth UOM:		ft			
<u>7</u>	1 of 2	SSE/95.3	428.4 / 17.86	5520 8 Line Erin ON N0B 1T0	EHS
Order No:		20302800012		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Standard Report		Client Prov/State:	ON
Report Date:		02-NOV-20		Search Radius (km):	.25
Date Received:		28-OCT-20		X:	-80.0835365
Previous Site Name:				Y:	43.7666092
Lot/Building Size:					
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans			
<u>7</u>	2 of 2	SSE/95.3	428.4 / 17.86	5520 8 Line Erin ON N0B 1T0	EHS
Order No:		20302800012		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Standard Report		Client Prov/State:	ON
Report Date:		02-NOV-20		Search Radius (km):	.25
Date Received:		28-OCT-20		X:	-80.0835365
Previous Site Name:				Y:	43.7666092
Lot/Building Size:					
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans			
<u>8</u>	1 of 1	W/114.3	402.5 / -8.01	lot 17 con 8 ON	WWIS
Well ID:		6700737		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Livestock		Date Received:	2/7/1968
Sec. Water Use:		Domestic		Selected Flag:	Yes
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	3316
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	ERIN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	017
Well Depth:				Concession:	08
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6700737.pdf

Bore Hole Information

Bore Hole ID:	10464883	Elevation:	406.1958
DP2BR:	48	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	573278.3
Code OB Desc:	Bedrock	North83:	4846702
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	12/12/1967	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932605892
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	48
Formation End Depth:	90
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932605891
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	48
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID:	966700737
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Information</u>					
Pipe ID:		11013453			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930755535			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		54			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930755536			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		90			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996700737			
Pump Set At:					
Static Level:					
Final Level After Pumping:		0			
Recommended Pump Depth:		20			
Pumping Rate:		5			
Flowing Rate:		5			
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		Yes			
<u>Water Details</u>					
Water ID:		933952867			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		85			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1	W/126.5	398.5 / -12.01	lot 17 con 8 ON	WWIS

Well ID:	6703510	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Livestock	Date Received:	11/19/1969
Sec. Water Use:	Domestic	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3316
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	ERIN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	017
Well Depth:		Concession:	08
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/670\6703510.pdf

Bore Hole Information

Bore Hole ID:	10467647	Elevation:	401.124847
DP2BR:	29	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	573214.3
Code OB Desc:	Bedrock	North83:	4846803
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	7/24/1969	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932618240
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	29
Formation End Depth:	55
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932618239			
Layer:		2			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		24			
Formation End Depth:		29			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932618238			
Layer:		1			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		24			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		966703510			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11016217			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930760777			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		55			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930760776			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		35			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996703510			
Pump Set At:					
Static Level:					
Final Level After Pumping:		20			
Recommended Pump Depth:		30			
Pumping Rate:		20			
Flowing Rate:		5			
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		Yes			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934345718			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		20			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935123267			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		20			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934858478			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		20			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934604289			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		20			
Test Level UOM:		ft			
<u>Water Details</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID:		933955998			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		49			
Water Found Depth UOM:		ft			

10	1 of 1	W/146.7	398.5 / -12.01	5570 8TH LINE lot 17 con 8 ERIN ON	WWIS
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Well ID:	7156326	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Domestic	Date Received:	12/10/2010
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	7407
Casing Material:		Form Version:	3
Audit No:	Z50895	Owner:	
Tag:		Street Name:	5570 8TH LINE
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	ERIN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	017
Well Depth:		Concession:	08
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7157156326.pdf

Bore Hole Information

Bore Hole ID:	1003435735	Elevation:	401.068756
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	573195
Code OB Desc:		North83:	4846817
Open Hole:		Org CS:	dmi83
Cluster Kind:		UTMRC:	5
Date Completed:	11/29/2010	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	1003436666
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		1003436657			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1003436663			
Layer:		1			
Material:		2			
Open Hole or Material:		GALVANIZED			
Depth From:		0			
Depth To:		21.2			
Casing Diameter:		36			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1003436664			
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>					
Pump Test ID:		1003436658			
Pump Set At:					
Static Level:		18.9			
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<u>Water Details</u>					
Water ID:		1003436662			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1003436660			
Diameter:		36			
Depth From:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To: Hole Depth UOM: Hole Diameter UOM:		21.2 m cm			

11	1 of 1	WNW/150.7	396.9 / -13.68	WELLINGTON lot 17 con 8 ERIN ON	WWIS
Well ID:	7156327			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Domestic			Date Received:	12/10/2010
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	0			Abandonment Rec:	
Water Type:				Contractor:	7407
Casing Material:				Form Version:	3
Audit No:	Z50894			Owner:	
Tag:	A095369			Street Name:	WELLINGTON
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	ERIN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	017
Well Depth:				Concession:	08
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/715\7156327.pdf

Bore Hole Information

Bore Hole ID:	1003435737	Elevation:	400.561676
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	573194
Code OB Desc:		North83:	4846835
Open Hole:		Org CS:	dmi83
Cluster Kind:		UTMRC:	5
Date Completed:		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	1003436676
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	1003436668
Casing No:	0
Comment:	
Alt Name:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		1003436673			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-2			
Depth To:		7			
Casing Diameter:		5			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1003436674			
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:		1003436672			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1003436670			
Diameter:		5			
Depth From:		0			
Depth To:		7			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

12	1 of 1	WNW/156.0	395.6 / -14.98	lot 17 con 8 ON	WWIS
Well ID:	6711560			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	11/10/1994
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	2663
Casing Material:				Form Version:	1
Audit No:	141439			Owner:	
Tag:				Street Name:	
Construction Method:				County:	WELLINGTON
Elevation (m):				Municipality:	ERIN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	017
Well Depth:				Concession:	08
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Northing NAD83: Zone: UTM Reliability:	

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6711560.pdf

Bore Hole Information

Bore Hole ID:	10475393	Elevation:	396.828063
DP2BR:	29	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	573227.3
Code OB Desc:	Bedrock	North83:	4846908
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	3
Date Completed:	9/2/1994	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932653157
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	1
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932653159
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	29
Formation End Depth:	103
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932653158			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:		12			
Mat3 Desc:		STONES			
Formation Top Depth:		1			
Formation End Depth:		29			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966711560			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11023963			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930774327			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		29			
Casing Diameter:		8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930774328			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		103			
Casing Diameter:		8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		996711560			
Pump Set At:					
Static Level:		7			
Final Level After Pumping:		40			
Recommended Pump Depth:		40			
Pumping Rate:		40			
Flowing Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Rate:		40			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934875094			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		7			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934349340			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		7			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935136076			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		7			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934614071			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		7			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933965568			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		50			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933965571			
Layer:		4			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		103			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Water Details</u>					
Water ID:		933965569			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		60			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933965570			
Layer:		3			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		78			
Water Found Depth UOM:		ft			

13	1 of 1	SSW/175.3	425.2 / 14.65	lot 16 con 8 ON	WWIS
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Well ID:	6712830	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	1/7/1999
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3317
Casing Material:		Form Version:	1
Audit No:	192048	Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	ERIN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	016
Well Depth:		Concession:	08
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/671\6712830.pdf		

Bore Hole Information

Bore Hole ID:	10476663	Elevation:	427.654998
DP2BR:	110	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	573541.3
Code OB Desc:	Bedrock	North83:	4846354
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	3
Date Completed:	12/3/1998	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932659186		
Layer:			5		
Color:			2		
General Color:			GREY		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			135		
Formation End Depth:			160		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932659183		
Layer:			2		
Color:			2		
General Color:			GREY		
Mat1:			05		
Most Common Material:			CLAY		
Mat2:			12		
Mat2 Desc:			STONES		
Mat3:			28		
Mat3 Desc:			SAND		
Formation Top Depth:			20		
Formation End Depth:			85		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932659184		
Layer:			3		
Color:			2		
General Color:			GREY		
Mat1:			05		
Most Common Material:			CLAY		
Mat2:			12		
Mat2 Desc:			STONES		
Mat3:					
Mat3 Desc:					
Formation Top Depth:			85		
Formation End Depth:			110		
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			932659185		
Layer:			4		
Color:			6		
General Color:			BROWN		
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Mat2 Desc:					
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:		110			
Formation End Depth:		135			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932659182			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		966712830			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11025233			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930776609			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		160			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930776608			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		115			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Results of Well Yield Testing</u>					
Pump Test ID:			996712830		
Pump Set At:					
Static Level:			75		
Final Level After Pumping:			90		
Recommended Pump Depth:			130		
Pumping Rate:			10		
Flowing Rate:					
Recommended Pump Rate:			10		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			1		
Water State After Test:			CLEAR		
Pumping Test Method:			1		
Pumping Duration HR:			1		
Pumping Duration MIN:			30		
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934870219		
Test Type:			Draw Down		
Test Duration:			45		
Test Level:			90		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934617955		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			90		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934353374		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			90		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			935131270		
Test Type:			Draw Down		
Test Duration:			60		
Test Level:			90		
Test Level UOM:			ft		
<u>Water Details</u>					
Water ID:			933967386		
Layer:			2		
Kind Code:			1		
Kind:			FRESH		
Water Found Depth:			155		
Water Found Depth UOM:			ft		
<u>Water Details</u>					

<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>Water ID:</i>		933967385			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		140			
<i>Water Found Depth UOM:</i>		ft			

Unplottable Summary

Total: **2** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
PTTW	Corporation of the Village of Erin	East half of Lot 16, Concession 9, Village of Erin Erin	ON	
SPL	PRIVATE OWNER	8 TH LINE OF ERIN, GREEN EMERGENCY # 5552. STORAGE TANK/BARREL	ERIN TOWN ON	

Unplottable Report

Site: Corporation of the Village of Erin
East half of Lot 16, Concession 9, Village of Erin Erin ON

Database:
[PTTW](#)

EBR Registry No: IA6E0802
Ministry Ref No: W960062
Notice Type: Instrument Decision
Notice Stage:
Notice Date: August 16, 2001
Proposal Date: May 16, 1996
Year: 1996
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Corporation of the Village of Erin
Site Address:
Location Other:
Proponent Name:
Proponent Address: Box 149, 109 Main Street, Erin Ontario, N0B 1T0
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

East half of Lot 16, Concession 9, Village of Erin Erin

Site: PRIVATE OWNER
8 TH LINE OF ERIN, GREEN EMERGENCY # 5552. STORAGE TANK/BARREL ERIN TOWN ON

Database:
[SPL](#)

Ref No: 160873
Site No:
Incident Dt: 10/7/1998
Year:
Incident Cause: OTHER CAUSE (N.O.S.)
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: AL
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/7/1998
Dt Document Closed:
Incident Reason: INTENTIONAL/PLANNED
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: PRIVATE OWNER-DARK SMOKE & RUNOFF FROM FIRE INVOL-VING HAZARDOUS MAT'L, FD.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 75405
Site Lot:
Site Conc:
Northing:
Easting: FD & WORKS
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

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](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

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-Oct 2018

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-Dec 31, 2020

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 2018

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: Jul 31, 2020

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-Dec 31, 2020

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 -Dec 2020

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-Nov 2020

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Mar 31, 2021

Drill Hole Database:Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. 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 to the MNDM. 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 - Sep 2020**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: Jul 31, 2020**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-Mar 31, 2021**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-Mar 31, 2021**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- Mar 31, 2021**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-Jan 31, 2021**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: Dec 31, 2016

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, 2020

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: Jul 31, 2020

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-Jan 2021

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: May 31, 2018

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: Jul 31, 2020

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. 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-Jan 31, 2021

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-Dec 2018

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 is 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: Jul 31, 2020

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: Feb 28, 2019

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-Dec 2020

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 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.

Government Publication Date: Dec 31, 2018

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-Apr 2018

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, 2020

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

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.

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-Feb 28, 2021

Ontario Oil and Gas Wells:

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources 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 include well owner/operator, location, permit issue date, and well cap date, license No., 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 provide for each well record.

Government Publication Date: 1800-Jun 2020

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 all 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-Mar 31, 2021

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-Mar 31, 2021

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 in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 31, 2020

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 all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Mar 31, 2021

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: 1986-2016

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).

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2021

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-Dec 31, 2020

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 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-Aug 2020

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all 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. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

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 - Dec 2020

Variations 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: Jul 31, 2020

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-Mar 31, 2021

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 30th, 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: Apr 30, 2020

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.



Appendix E

Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Title, Company Name and Mailing Address of Requester Dorothy Garda., M.Sc. DS Consultants Ltd. 6221 Highway 7, Unit 16 Vaughan, ON, L4H 0K8 Email Address: dorothy.garda@dsconsultants.ca			FOI Request No.	Date Request Received
			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input checked="" type="checkbox"/> VISA-MC <input type="checkbox"/> CASH	
Telephone/Fax Nos. Tel : 905-264-9393	Your Project/Reference No. 21-129-300	Signature of Requester	<input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 5525 8th Line, Erin, Ontario. PART OF LOT 19. REGISTRAR'S COMPILED PLAN 686, TOWN OF ERIN, COUNTY OF WELLINGTON				
Present Property Owner(s) and Date(s) of Ownership Derry Dawe Golf Course Ltd				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable)				
Search Parameters			Specify Year(s) Requested	
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				
Environmental concerns (General correspondence, occurrence reports, abatement)			All Years	
Orders			All Years	
Spills			All Years	
Investigations/prosecutions ▶ Owner AND tenant information must be provided			All Years	
Waste Generator number/classes			All Years	
Certificates of Approval ▶ Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
			SD	Specify Year(s) Requested
air - emissions				1986- present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)				1986- present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations				1986- present
waste water - industrial discharge				1986- present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites				1986- present
waste systems - PCB destruction, mobile waste processing units, haulers, sewage, non-hazardous & hazardous waste				1986- present
pesticides - licenses				1986- present

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

Dorothy Garda

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: May 10, 2021 11:00 AM
To: Dorothy Garda
Subject: RE: [Possible Malware Fraud]UST/AST Search

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello Dorothy,

Thank you for your request for confirmation of public information.

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

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationsservices@tssa.org along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

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

Kind regards,

Saara



Public Information Agent

Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Dorothy Garda <dorothy.garda@dsconsultants.ca>
Sent: May 7, 2021 4:46 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: [Possible Malware Fraud]UST/AST Search

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WARNING: Your email security system has determined the message below may be a potential threat.

It may trick victims into clicking a link and downloading malware. Do not open suspicious links.

If you do not know the sender or cannot verify the integrity of the message, please do not respond or click on links in the message. Depending on the security settings, clickable URLs may have been modified to provide additional security.

Hello,

Could you please search your records for ASTs/USTs for the following addresses:

- 5525 8 Line, Erin
- 5534 8 Line, Erin
- 5487 8 Line, Erin
- 5532 8 Line , Erin
- 5578 8 Line, Erin

Thank you,

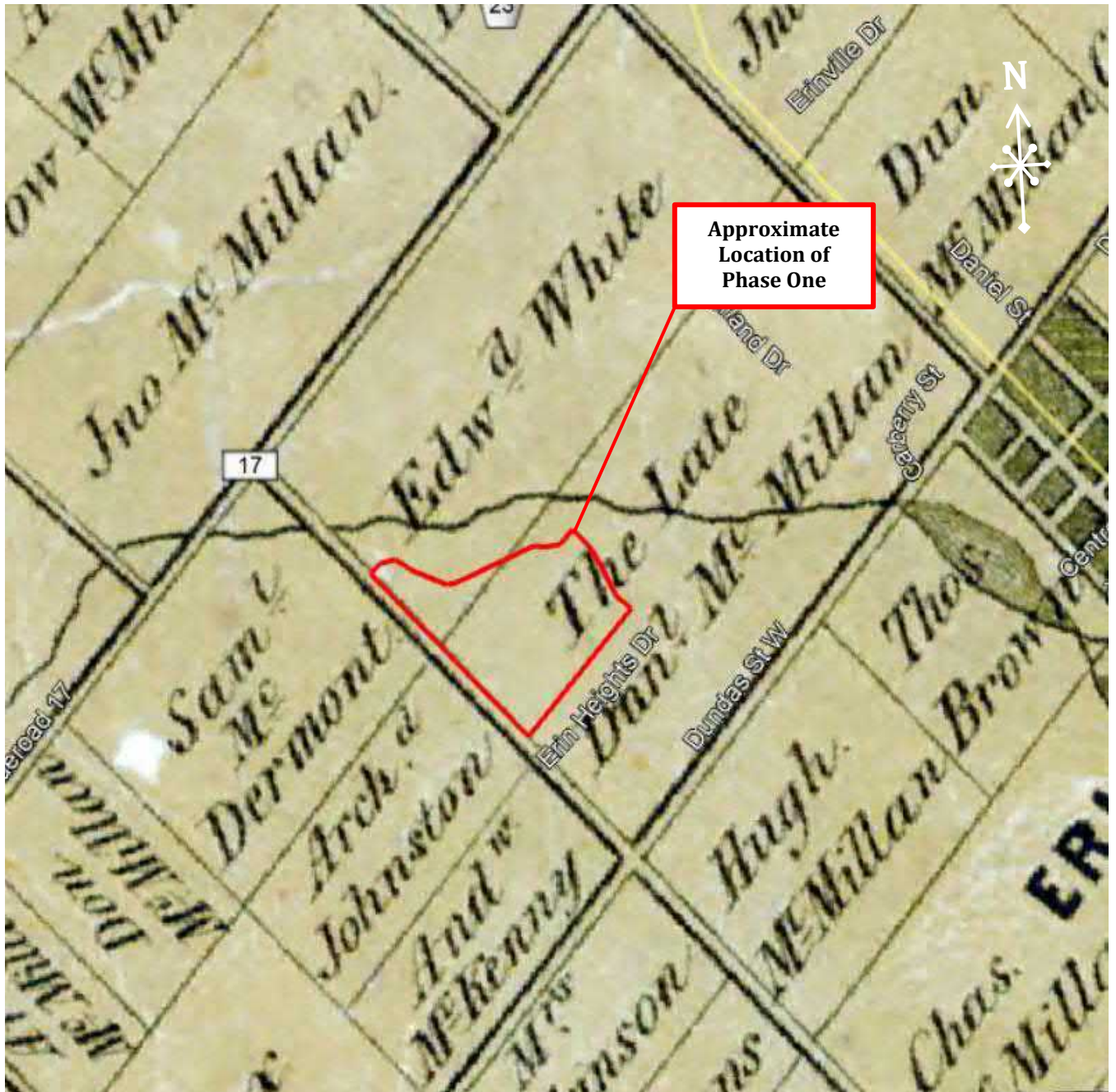


Dorothy Garda
Junior Hydrogeologist, M.Sc.
DS Consultants Ltd
6221 Highway 7, Unit 16,
Vaughan, ON, L4H 0K8
Tel: (905) 264-9393
Cell: (905) 329-2735
www.dsconsultants.ca

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Appendix F



County Atlas Project



6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

YORK COUNTY ATLAS: 1860

Scale:
 NTS

Date:
 Jun-21

Project:
 21-129-300

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

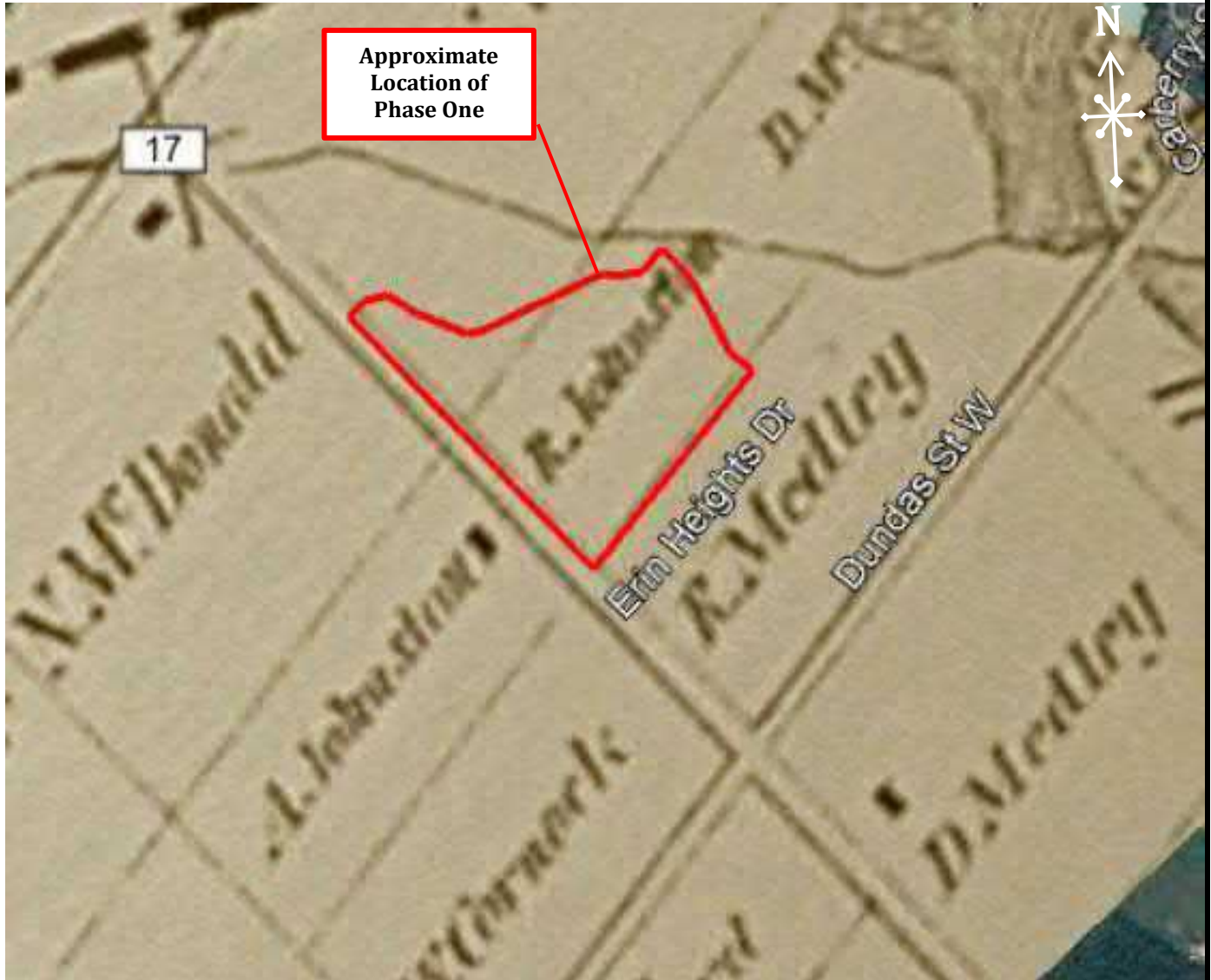
Erin Heights Golf Course, Erin, ON

Prepared For: Empire Communities


Prepared By:
 DG

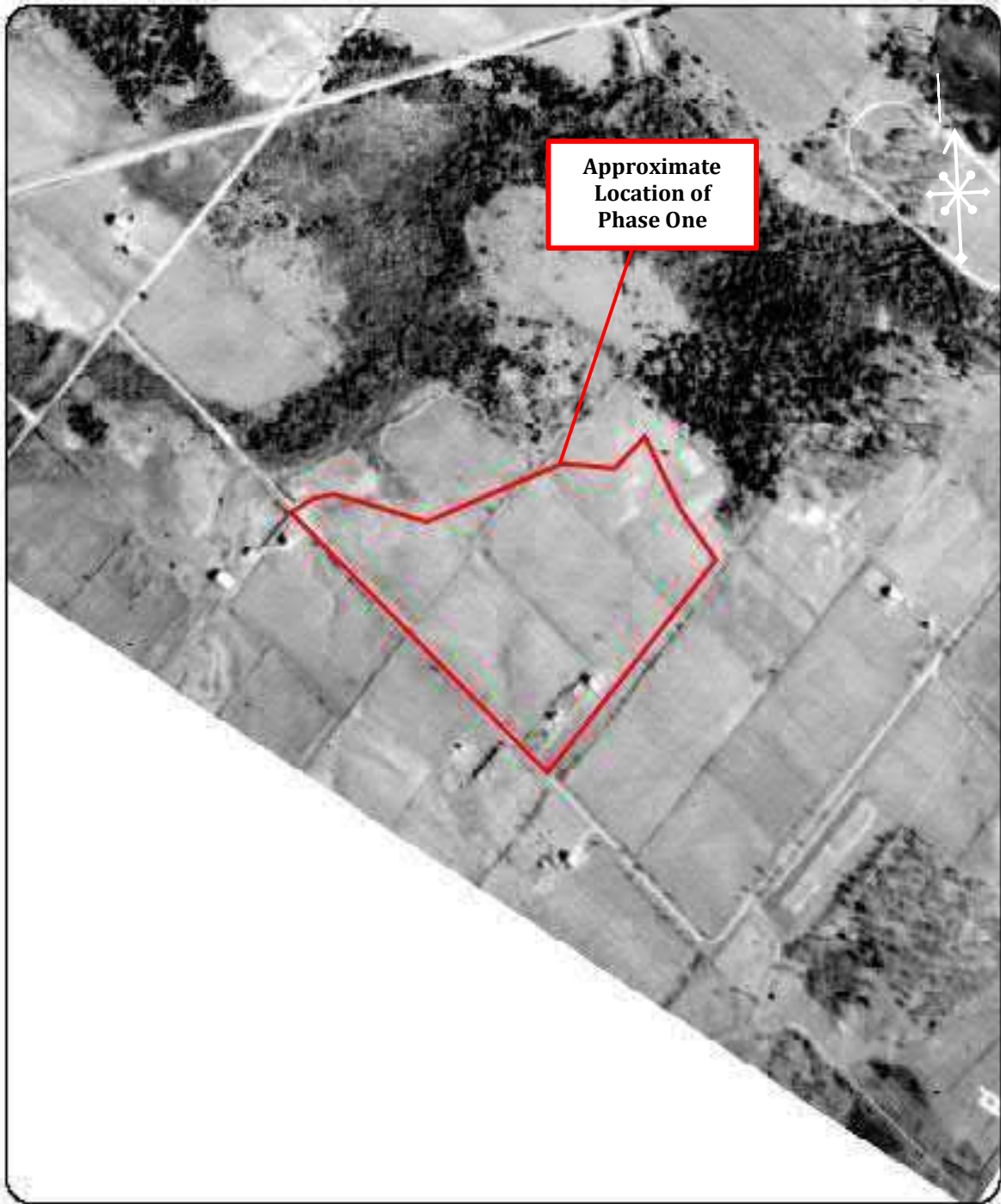
Reviewed By:
 KC

Drawing No.
F-1



County Atlas Project

 6221 Highway 7 Vaughan, ON L4H 0K8 T: 905-264-9393 F: 905-264-2685	YORK COUNTY ATLAS: 1880		
	Scale: NTS	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, Erin, ON	Prepared By: DG
	Date: Jun-21		Reviewed By: KC
Project: 21-129-300	Prepared For: Empire Communities		Drawing No. F-2



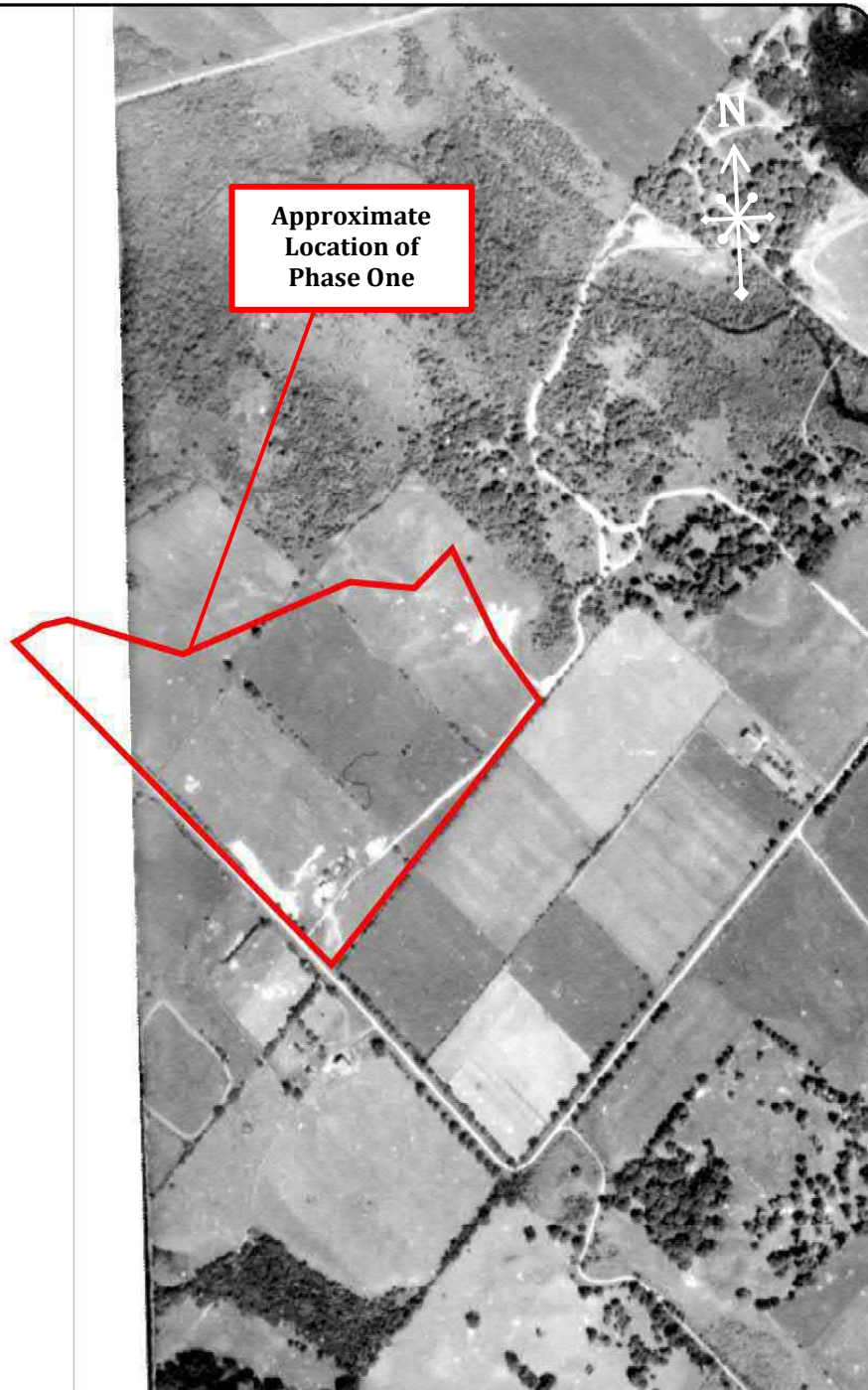
©ERIS

AERIAL PHOTOGRAPH: 1930



6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

Scale: ~1:10000	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, Erin, ON	Prepared By: DG
Date: Jun-21		Reviewed By: KC
Project: 21-129-300	Prepared For: Empire Communities	Drawing No. F-3



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6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

AERIAL PHOTOGRAPH: 1946

Scale:
 ~1:10000

Date:
 Jun-21

Project:
 21-129-300

**PHASE ONE ENVIRONMENTAL SITE
 ASSESSMENT
 Erin Heights Golf Course, Erin, ON**

Prepared For: Empire Communities

Prepared By:
 DG

Reviewed By:
 KC


Drawing No.
F-4

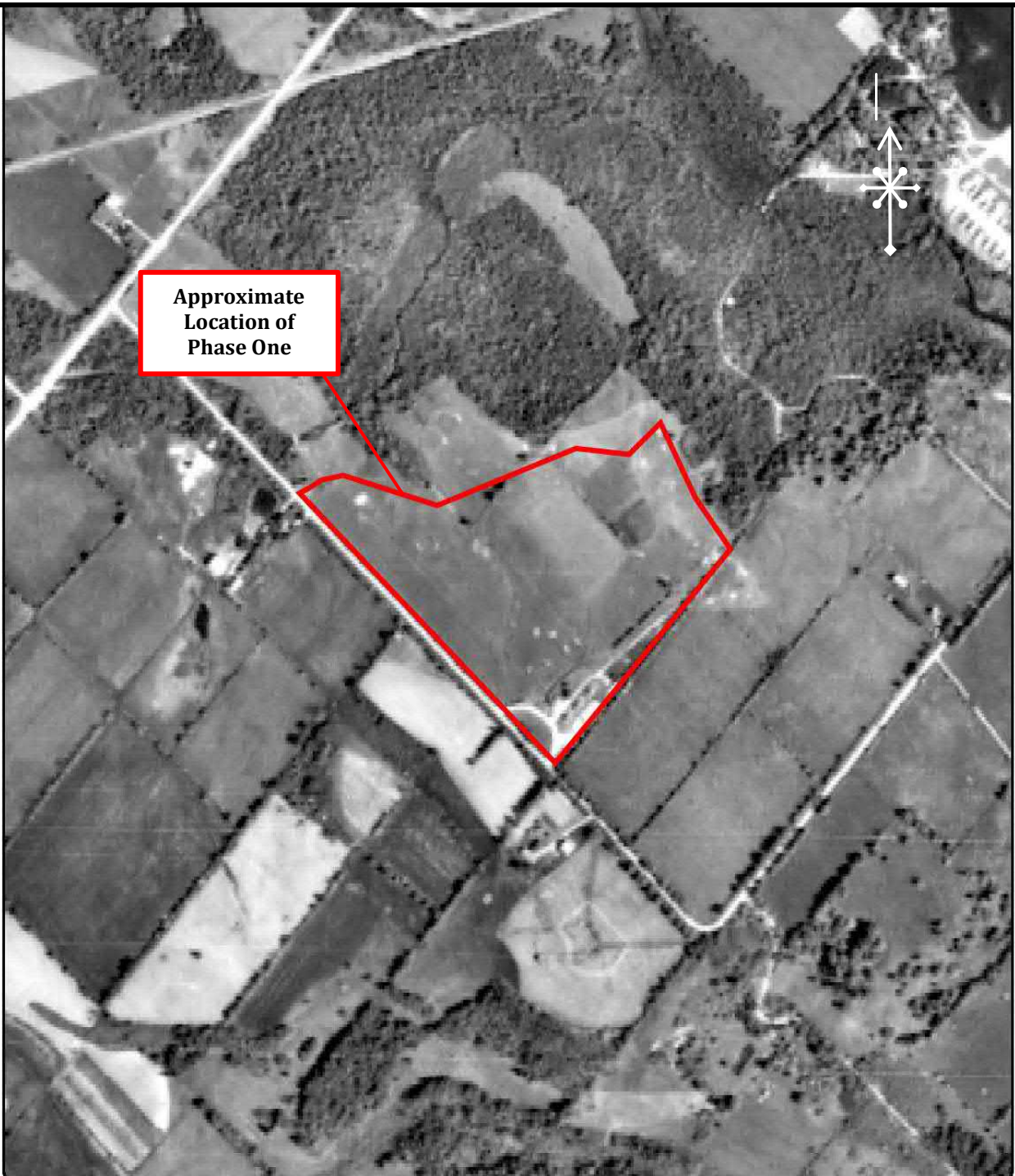


**Approximate
Location of
Phase One**



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 6221 Highway 7 Vaughan, ON L4H 0K8 T: 905-264-9393 F: 905-264-2685	AERIAL PHOTOGRAPH: 1954		
	Scale: ~1:10000	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, Erin, ON	Prepared By: DG
	Date: Jun-21		Reviewed By: KC
Project: 21-129-300	Prepared For: Empire Communities	Drawing No. F-5	



**Approximate
Location of
Phase One**

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AERIAL PHOTOGRAPH: 1969



6221 Highway 7
Vaughan, ON L4H 0K8
T: 905-264-9393 F: 905-264-2685

Scale:
~1:10000

Date:
Jun-21

Project:
21-129-300

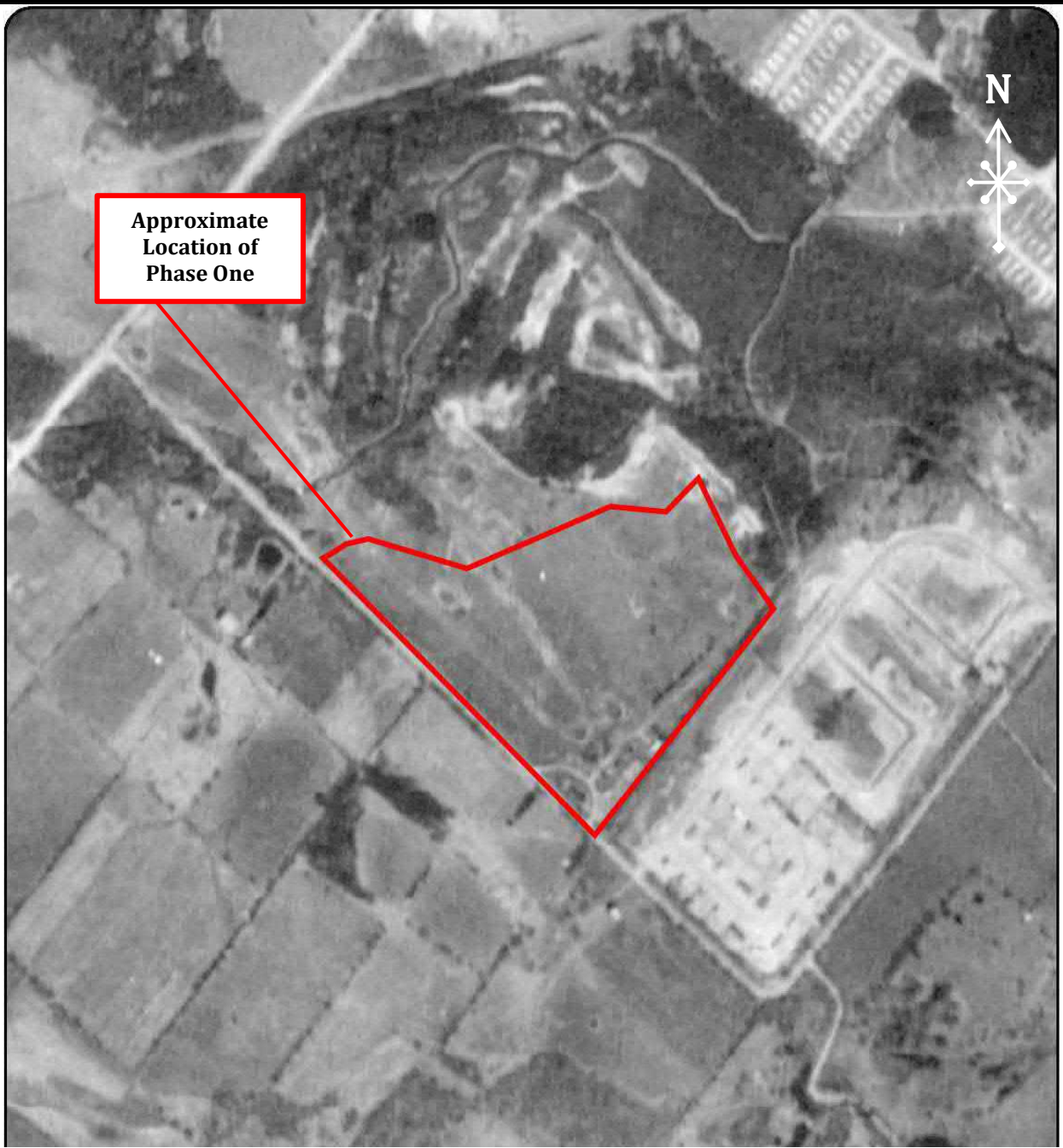
**PHASE ONE ENVIRONMENTAL SITE
ASSESSMENT
Erin Heights Golf Course, Erin, ON**

Prepared For: Empire Communities


Prepared By:
DG

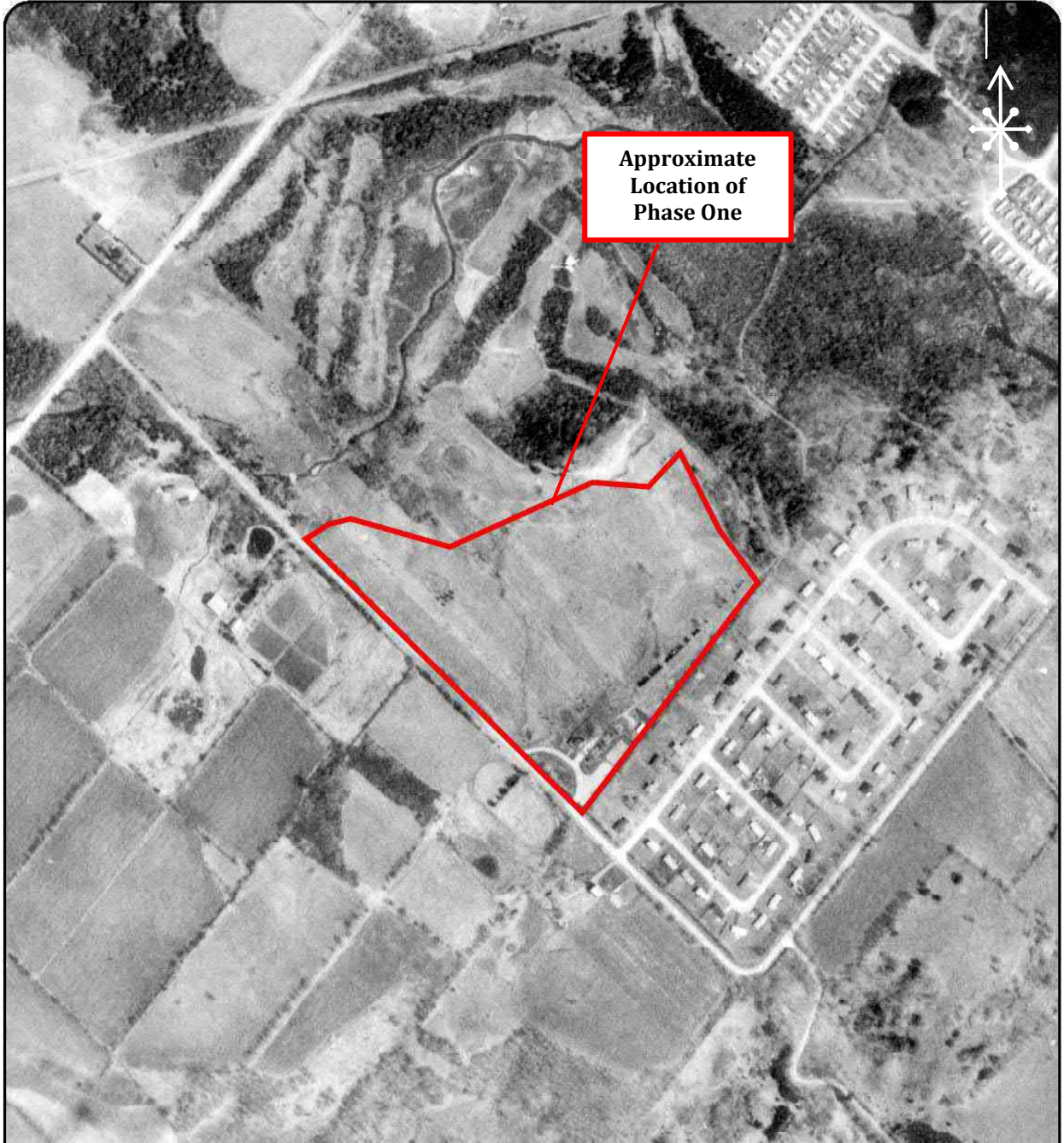
Reviewed By:
KC

Drawing No.
F-6



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 <p>6221 Highway 7 Vaughan, ON L4H 0K8 T: 905-264-9393 F: 905-264-2685</p>	AERIAL PHOTOGRAPH: 1976		
	Scale: ~1:10000	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, Erin, ON	Prepared By: DG
	Date: Jun-21		Reviewed By: KC
Project: 21-129-300	Prepared For: Empire Communities		Drawing No. F-7



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6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

SATELLITE IMAGE: 1980

Scale:
 ~1:10000

Date:
 Jun-21

Project:
 21-129-300

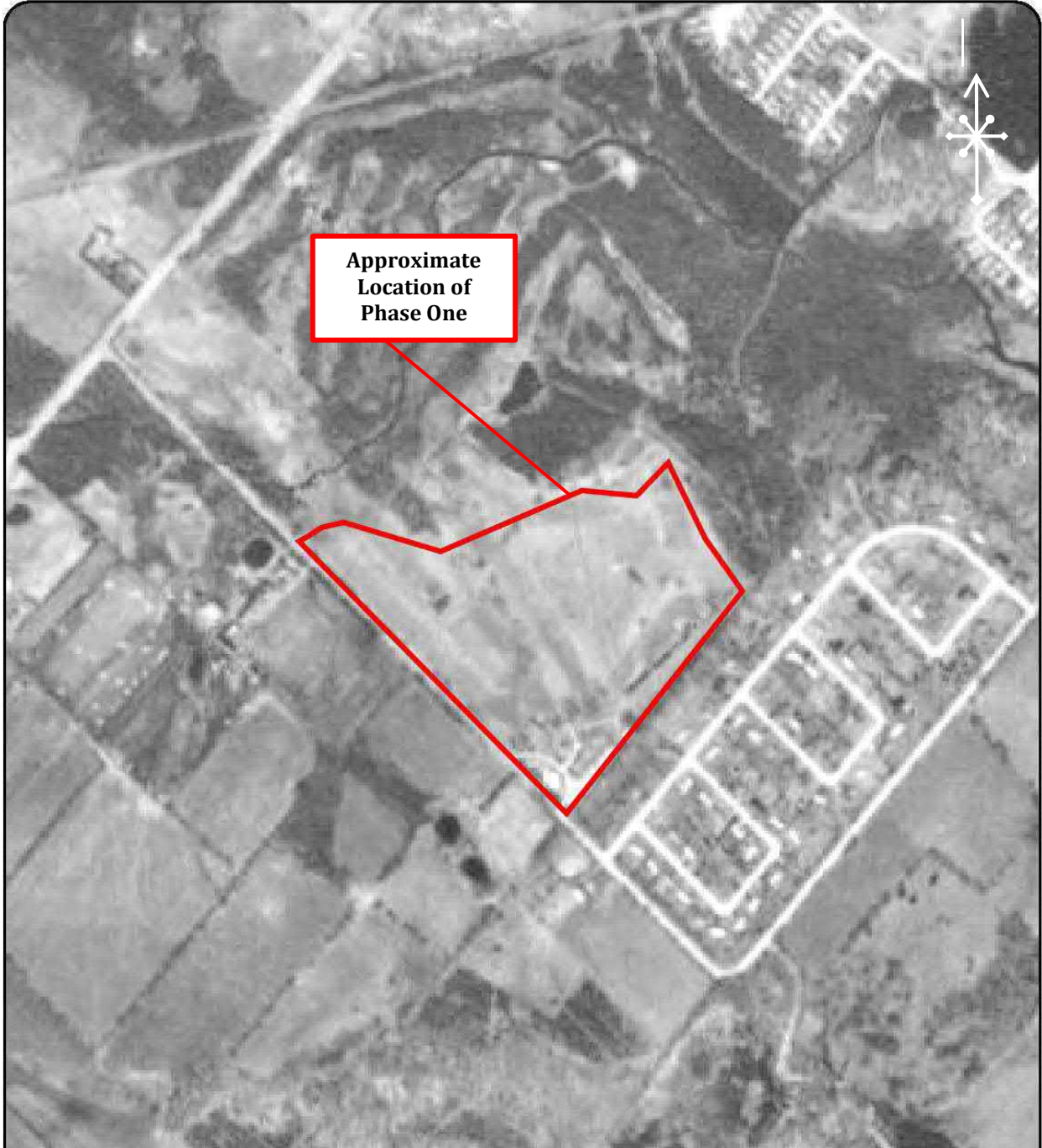
**PHASE ONE ENVIRONMENTAL SITE
 ASSESSMENT
 Erin Heights Golf Course, Erin, ON**

Prepared For: Empire Communities

Prepared By:
 DG

Reviewed By:
 KC

Drawing No.
F-8



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SATELLITE IMAGE: 1990



6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

Scale:
 ~1:10000

Date:
 Jun-21

Project:
 21-129-300

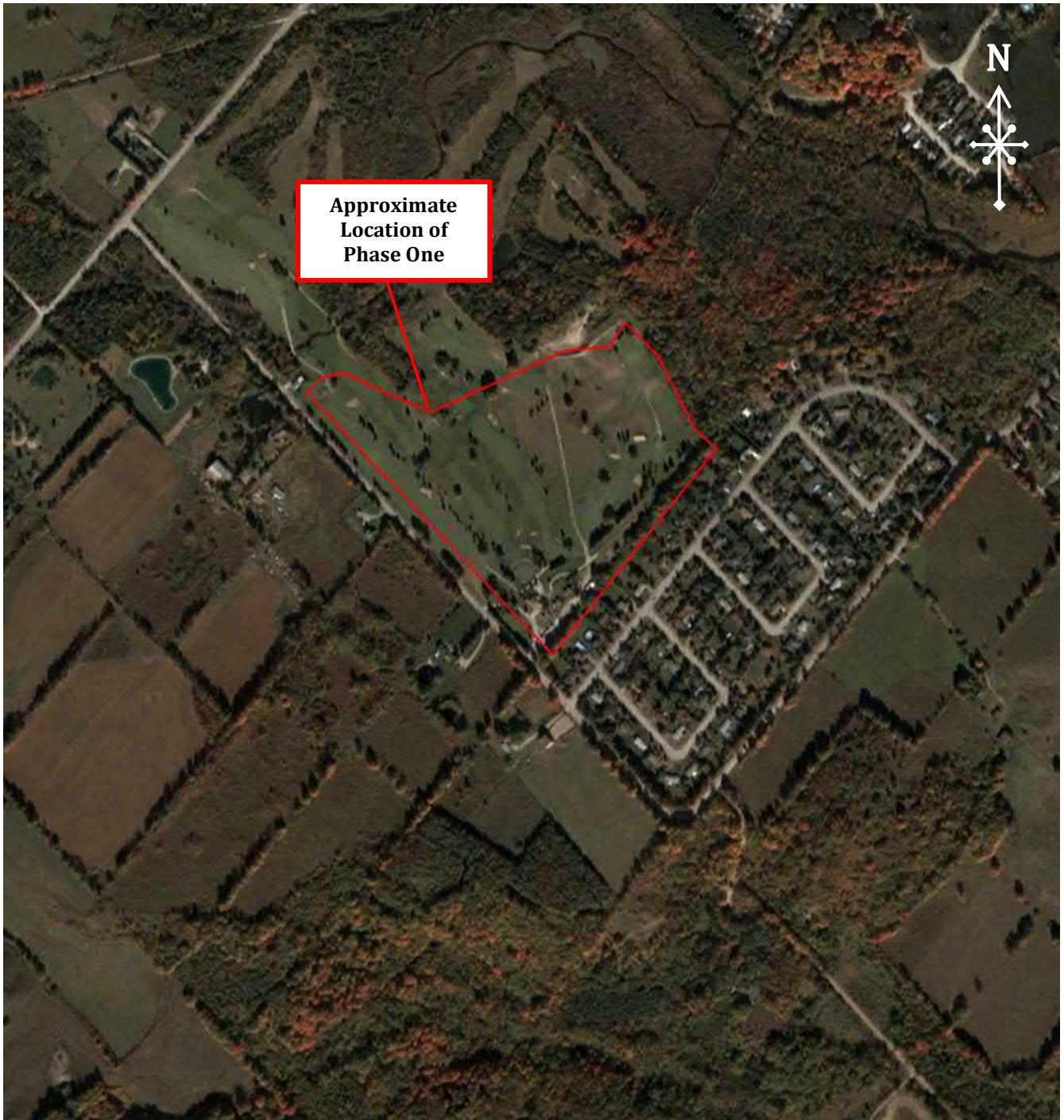
**PHASE ONE ENVIRONMENTAL SITE
 ASSESSMENT
 Erin Heights Golf Course, Erin, ON**

Prepared For: Empire Communities

Prepared By:
 DG

Reviewed By:
 KC

Drawing No.
F-9



© Google Earth



6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

SATELLITE IMAGE: 2005

Scale: ~1:8800	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, Erin, ON	Prepared By: DG
Date: Jun-21		Reviewed By: KC
Project: 21-129-300	Prepared For: Empire Communities	Drawing No. F-10



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6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

SATELLITE IMAGE: 2012

Scale: ~1:8000	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, Erin, ON	Prepared By: DG
Date: Jun-21		Reviewed By: KC
Project: 21-129-300	Prepared For: Empire Communities	Drawing No. F-11



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6221 Highway 7
 Vaughan, ON L4H 0K8
 T: 905-264-9393 F: 905-264-2685

SATELLITE IMAGE: 2015

Scale:
 ~1:8800

Date:
 Jun-21

Project:
 21-129-300

**PHASE ONE ENVIRONMENTAL SITE
 ASSESSMENT
 Erin Heights Golf Course, Erin, ON**

Prepared For: Empire Communities

Prepared By:
 DG

Reviewed By:
 KC

Drawing No.
F-12



Approximate
Location of
Phase One

© Google Earth



6221 Highway 7
Vaughan, ON L4H 0K8
T: 905-264-9393 F: 905-264-2685

SATELLITE IMAGE: 2018

Scale:
~1:6600

Date:
Jun-21

Project:
21-129-300

**PHASE ONE ENVIRONMENTAL SITE
ASSESSMENT
Erin Heights Golf Course, Erin, ON**

Prepared For: Empire Communities

Prepared By:
DG

Reviewed By:
KC

Drawing No.
F-13



Appendix G



Picture 1: View of the south side of the clubhouse, facing north



Picture 2: View of the west side of the clubhouse, facing southwest



Picture 3: View of the south side of clubhouse, facing southeast



Picture 4: View of the clubhouse basement with potential asbestos containing pipe wrap.



Picture 5: View of electric water heater and water softener in the clubhouse basement.



Picture 6: View of electric boiler in the clubhouse basement.



Picture 7: View of sump pit in the clubhouse basement.



Picture 8: View of the parking lot on the southeastern portion of the Property, facing east.



Picture 9: View of the rental cottages on the Phase One Property, facing southwest.



Picture 10: View of the gasoline and diesel ASTs adjacent to the maintenance shop.



Picture 11: View of the interior of the maintenance shop (west end).



Picture 12: View of the interior of the maintenance shop (central portion).



Picture 13: View of the equipment storage area on the Phase One Property, facing east.



Picture 14: View of the equipment storage area on the Phase One Property, facing south.



Picture 15: View of the equipment storage area on the Phase One Property, facing west.



Picture 16: View of the golf course, facing north



Picture 17: View of the golf course, facing northwest



Picture 18: View of the golf course, facing east



Picture 19: View of the golf course, facing west



Picture 20: View of the eastern limit of the Phase One Property, facing north



Picture 21: View of the western neighbouring properties along 8th Line, facing north.



Picture 22: View of the eastern neighbouring properties along 8th Line, facing south.



Picture 23: View of the southern properties along 8th Line, facing west.



Picture 24: View of the entrance to the Phase One Property off of 8th Line, facing east.