Phase One Environmental Site Assessment
4380 Trail Road, Ottawa, Ontario

Client:
GFL Environmental Services Inc
2705 Stevenage Drive
Ottawa, Ontario

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Phase One Environmental Site Assessment

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Legal Notification

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Executive Summary

EXP Services Inc. (EXP) was retained by GFL Environmental Services Inc. (previously Drain-All Ltd.) to complete a Phase One Environmental Site Assessment (ESA) for the property located at 4380 Trail Road in Ottawa, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, the Phase One property was used as a receiving site for excess soils.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Canadian Standards Association (CSA) Z768 guideline, as amended, in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. Limitation of liability, scope of report and third-party reliance are outlined in Section 9 of this report.

The purpose of this Phase One ESA is to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. It is understood that the report will be used to support a site zoning bylaw amendment with the City of Ottawa.

The Phase One property is located on the south side of Trail Road, east of Moodie Drive, and covers an area of approximately 4.2 hectares. The Phase One property is bounded by the active Trail Road Landfill to the north across Trail Road, and the closed Nepean Landfill to the west. The property to the south and east of the Phase One property is referred to as the South Aggregate Pond. Industrial properties are also present in the study area.

The Phase One property consists of a pit, as it was formerly mined as a sand and gravel resource. Since 2015, Drain-all has been operating the Phase One property as a receiver site for unimpacted excess soil generated from various construction sites throughout the region. The soils are sourced from clients who are performing scheduled or emergency maintenance of utilities, such as electrical, natural gas, water, or telecommunications predominantly in urban residential, parks and recreational spaces. Soils that are excavated using vacuum trucks utilize municipal water.

The first developed use of a property is defined as use that resulted in the development of a building or structure. Based on a review of historical aerial photographs, historical maps, and other records, it does not appear that a building or permanent structure has ever been present on the Phase One property. The Phase One property appears to have been used as an aggregate resource between the 1970s and the 1990s. As of 2015, Drain-all has been operating the Phase One property as a receiver site for unimpacted excess soil.

There are seven monitoring wells present on the Site.

As part of a semi-annual monitoring program the first round of groundwater sampling was completed on June 8, 2022. Groundwater samples were collected from five wells (three due to proximity to site activities and/or downgradient location, and two to establish baseline levels) and submitted for laboratory analysis of volatile organic compounds (VOC), petroleum hydrocarbons (PHC), polycyclic aromatic hydrocarbons (PAH), and inorganics. All of the groundwater samples were within the Table 2 potable groundwater standards for all of the parameters analysed.

The following on-site potentially contaminating activities (PCA) were identified:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks

The following off-site PCAs were identified:

- PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

The fuel oil above ground storage tank (AST) is located inside of a shipping container. No staining was observed on the floor of the containing or the ground in the vicinity of the container.

The Nepean and Trail Road Landfills have been monitored since at least 2003. Based on a review of the available reports (2012 to 2019), localized areas of groundwater impacted by leachate have been identified area, one of which west of the Phase One property. Based on the groundwater flow direction at the Phase One property, the leachate impacted area is cross-gradient of the Phase One property.

In addition, as part of the groundwater monitoring program for the Phase One property, five monitoring wells on the Phase One property were sampled for analysis of VOC, PHC, PAH, and inorganics. All the results were within the Table 2 potable groundwater standards. Therefore, leachate from the landfills does not appear to be impacting the Phase One property. None of the PCAs are considered to results in APECs.

The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The Qualified Person who oversaw this work, Chris Kimmerly, P.Geo., does not recommend any additional work at the Phase One property other than continuing the semi-annual groundwater monitoring program.

This executive summary is a brief synopsis of the report and should not be read in lieu of reading the report in its entirety.

1.0 Introduction

EXP Services Inc. (EXP) was retained by Drain-All Ltd. to complete a Phase One Environmental Site Assessment (ESA) for the property located at 4380 Trail Road in Ottawa, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, the Phase One property was used as a receiving site for excess soils.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. Limitation of liability, scope of report and third-party reliance are outlined in Section 9 of this report.

Please note that general environmental management and housekeeping practices were reviewed as part of this assessment insofar as they could impact the environmental condition of the property, however, a detailed review of regulatory compliance issues was beyond the scope of our investigation. This Phase One ESA does not constitute an audit of environmental management practices, indicate geotechnical conditions or identify geologic hazards.

1.1 Objective

The purpose of this Phase One ESA is to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. As the most recent use of this property was industrial and a change in use is not proposed, a Record of Site Condition (RSC) is not required.

EXP personnel who conducted assessment work for this project included Leah Wells, P.Eng. and Chris Kimmerly, P.Geo. An outline of their qualifications is provided in Appendix A.

1.2 Phase One Property Information

The Phase One property is located on the south side of Trail Road, east of Moodie Drive, and covers an area of approximately 4.2 hectares. The Phase One property is bounded by the active Trail Road Landfill to the north across Trail Road, and the closed Nepean Landfill to the west. The property to the south and east of the Phase One property is referred to as the South Aggregate Pond. Industrial properties are also present in the study area. A Site Location Plan is provided as Figure 1 and a Site Plan is provided as Figure 2 in Appendix B.

The Phase One property has the property identification numbers 045920007. The legal description of the property is Part of Lot 8, Concession 4 (Rideau Front), geographic Township of Nepean, City of Ottawa. A survey of the Phase One property is provided in Appendix C.

The Phase One property consists of a pit, as it was formerly mined as a sand and gravel resource. Since 2015, Drain-All has been operating the Phase One property as a receiver site for excess soil generated from various construction sites throughout the region. The soils are sourced from clients who are performing scheduled or emergency maintenance of utilities, such as electrical, natural gas, water, or telecommunications predominantly in urban residential, parks and recreational spaces. Soils that are excavated using vacuum trucks utilize municipal water.

There are two areas where soil is stored on the Phase One property. Incoming excess soil is initially placed in either Zone A for liquid soils (for decanting) or Zone B for dry soils, shown on Figure 2. The soil is then sampled and analyzed for various parameters to confirm suitability for final placement on the Phase One property.

The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid is NAD83, Zone 18T, 439698 m E, 5008860 m N. The UTM coordinates were based on an estimate derived using Google Earth™. The accuracy of the centroid is estimated to range from 5 to 50 m.

Authorization to proceed with this investigation was provided by Mr. David Elsie on behalf of Drain-All Ltd. Contact information for Mr. Elsie is 2705 Stevenage Drive, Ottawa, ON, Ontario, K1G 3N2.

2.0 Scope of Investigation

The scope of work for the Phase One ESA consisted of the following activities:

- Reviewing the historical occupancy of the Phase One property through the use of available archived and relevant municipal and business directories, fire insurance plans (FIPs), topographical maps, and aerial photographs;
- Reviewing municipal and provincial records to determine whether activities that have occurred within the Phase One study area pose a potential environmental concern to the Phase One property;
- Obtaining an EcoLog Environmental Risk Information Services Ltd. (ERIS) report for the Phase One property and surrounding properties within a 250-metre radius of the Phase One property;
- Reviewing available geological maps, well records and utility maps for the vicinity of the Phase One property;
- Obtaining a search of land title and assessment rolls for the Phase One property;
- Conducting at least one reconnaissance of the Phase One property and surrounding properties within a 250-metre radius of the Phase One property in order to identify the presence of actual and/or potential environmental contaminants or concerns of significance;
- Conducting interviews with designated representative(s) as a resource for current and historical information;
- Reviewing the current use of the Phase One property and any land use practices that may have impacted its environmental condition;
- Reviewing the current use of the surrounding properties and any land use practices that may have impacted the environmental condition of the Phase One property; and,
- Preparing a report to document the findings.

In completing the scope of work, EXP did not conduct any intrusive investigations, including sampling, analyses, or monitoring. EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others.

3.0 Records Review

3.1 Phase One ESA Study Area Determination

The Phase One study area comprises the Phase One property and surrounding properties wholly or partly within 250 metres of the property boundaries. The 250-metre radius was used to gain an understanding of the current and past uses of surrounding properties to determine whether such uses may have contributed to subsurface environmental impacts at the Phase One property.

According to the City of Ottawa GeoOttawa on-line mapping tool, the south part of the Phase One property is zoned for mineral extraction. The northwest part of the Phase One property, parallel to the property line, is zoned for open space. Surrounding properties to the south, east, and west are zoned mineral extraction zones. The property north of the Phase One property is zoned rural countryside.

The Phase One property is bounded by the active Trail Road Landfill to the north across Trail Road, and the closed Nepean Landfill to the west. The property to the south and east of the Phase One property is referred to as the South Aggregate Pond. Industrial properties are also present in the study area.

The presence of the former and active landfill sites are a potentially contaminating activity (PCA #58 – Waste disposal and waste management).

The Phase One study area is shown on Figure 3 in Appendix B.

3.2 First Developed Use Determination

The first developed use of a property is defined as use that resulted in the development of a building or structure. Based on a review of historical aerial photographs, historical maps, and other records, it does not appear that a building or permanent structure has ever been present on the Phase One property.

The Phase One property appears to have been used as an aggregate resource between the 1970s and the 1990s. As of 2015, Drain-all has been operating the Phase One property as a receiver site for unimpacted excess soil.

3.3 Fire Insurance Plans

A search of The Catalogue of Canadian Fire Insurance Plans (FIP) 1875 – 1975 (Catalogue) was conducted. There are no FIPs available for the Phase One study area.

3.4 Chain of Title

A chain of title was requested from Read Abstracts Limited for the Phase One property. To date, no response has been received.

A partial chain of title was obtained from GeoWarehouse and is included in Appendix D. The partial chain of title included property ownership information from 1953 to present. The property was acquired by Patrick Lennon in 1953. Title was subsequently transferred to Marcel Brazeau (1967), Bakermet Inc. (1988), and 2177302 Ontario Ltd. (2008). The Phase One property was acquired by Drain-All in July 2013.

3.5 Environmental Reports

The following environmental reports concerning the Phase One property were available for review:

1. EXP Services Inc., *Groundwater Monitoring Program, 4380 Trail Road, Ottawa, Ontario,* June 16, 2023.

The purpose of the groundwater sampling program was to assess for potential impact to the hydrogeological regime due to on-Site soil management operations on a seasonal basis. One groundwater monitoring event is to be completed during the

drier (lower water table) seasons (i.e., summer or winter) and a second groundwater monitoring event is to be completed during the wetter (higher water table) seasons (i.e., fall or spring). This report documented summer (June 2022) and spring (May 2023) groundwater monitoring events.

As part of the semi-annual monitoring program the first two rounds of groundwater sampling was completed on June 8, 2022 and May 5, 2023. Groundwater samples were collected from five wells (MW-2 [P-2] and MW-5 due to proximity to site activities, MW-3 due to downgradient location, and MW-4 and MW-6 to establish baseline levels) and submitted for analysis of VOC, PHC, PAH, and inorganics. All of the groundwater samples were within Table 2 potable groundwater standards for all of the parameters analyzed.

2. EXP Services Inc., *Proposed Groundwater Monitoring Program, 4380 Trail Road, Ottawa, Ontario,* May 13, 2022

This report characterized the hydrogeological conditions at the Phase One property and made recommendations for a groundwater sampling program to support an application for an Environmental Compliance Approval (ECA) for the site.

The geology of the Phase One study area is characterized by low relief deposits of clay interspersed by glacio-fluvial eskers and faulted bedrock. Sediments were deposited as glaciers retreated which resulted in linear accumulation of glaciofluvial deposits. Following the intrusion of the Champlain Sea, these glaciofluvial deposits were completely or partially buried by marine clays. The Champlain Sea deposits are overlain by reworked beach sand, deposited as the Champlain Sea receded. Drift thickness maps indicate that overburden drift thickness is generally greater than 15 metres in the area of the site. Borehole logs for the boreholes near the Phase One property have identified a stratified sand and gravel layer from surface to bedrock or borehole termination.

Bedrock geology in the area consists of Paleozoic limestone, dolostone, and shale. The Oxford Formation is present underlying the site. Boreholes logs for the boreholes near the Phase One property identified limestone bedrock between 17 and 37 metres below ground surface. A silty cobbly till was encountered overlying the bedrock in some of the boreholes.

Regional groundwater across the area flows to the northeast, towards the Ottawa River. Local deviation from the regional groundwater flow pattern may occur in response to changes in topography and/or soils, as well as the presence of surface water features and/or existing subsurface infrastructure.

Surficial geology in the area generally consists of sand, coarse sand and gravel, and a silt cobbly till. A discontinuous silt and clay layer is sporadically present. Where the silty clay aquitard is present, the overburden aquifer is divided into a “shallow” and “deep” aquifer. A shallow aquifer is present in the fine to medium sand layer perched above the discontinuous clay layer. Groundwater flow direction in the shallow aquifer is generally towards the southwest. The confining clay layer which acts as an aquitard that supports the shallow aquifer is present primarily to the west and north of the Phase One property. The aquitard tapers laterally to the west of Moodie Drive and to the east of Trail Road and is not present underlying the site, therefore there is no shallow aquifer present on the Phase One property.

The deep aquifer consists of coarse sand and gravel overlying limestone bedrock and is present underlying the entire study area. A silty cobbly till is present in some areas between the sand and gravel and the bedrock. The direction of groundwater flow in the deep aquifer is towards the Dewatering Pond to the north-northwest. At the Phase One property, the confining clay layer is absent overlying the deep aquifer.

Based on the results of the preliminary hydrogeological assessment, EXP proposed that one monitoring well be installed in the upper portion of the deep aquifer. The first monitoring well was placed adjacent and downgradient of Zone A (decanting zone). The second monitoring well was placed downgradient of the infilling area. A third monitoring well was installed on the east southeast (upgradient) side of the site. The locations of the on-site wells are shown on Figure 3.

To assess potential impact to the upper groundwater regime, a semi-annual monitoring program was proposed for the spring and fall. Groundwater elevation measurements will be recorded from all on-site monitoring wells so that groundwater flow patterns can be monitored. Groundwater samples will be collected and submitted for analysis of metals and inorganics, petroleum hydrocarbons (PHC), volatile organic compounds (VOC), and polycyclic aromatic hydrocarbons (PAH) on a semi-annual basis.

2 EXP Services Inc., Baseline Groundwater Monitoring Program –4380 Trail Road, Ottawa, Ontario, June 2022.

As part of a semi-annual monitoring program for the acceptance of excess liquid soils, the first round of groundwater sampling was completed on June 8, 2022. Groundwater samples were collected from five wells (three due to proximity to site activities and/or downgradient location, and two to establish baseline levels) and submitted for analysis of VOC, PHC, PAH, and inorganics. All of the groundwater samples were within the Table 2 potable groundwater standards for all of the parameters analysed. The groundwater analytical tables are provided in Appendix G and the laboratory certificates of analysis are provided in Appendix H.

3 Annual groundwater monitoring reports for the adjacent Nepean Landfill from 2013 to 2019 were also reviewed.

The Nepean Landfill is located west of the Phase One property. It operated between 1960 and 1980 and was capped with a low permeability cover in 1993. The monitoring program for the landfill involves collecting groundwater levels, groundwater sampling, surface water sampling, private wells sampling, and landfill gas monitoring.

Regionally, the 2019 report concluded that leachate effects are observed in the shallow aquifer to the south and southwest of the Nepean Landfill. Some impacts in the shallow aquifer have also been observed to the northwest, over 1 km from the Phase One property. Impacts are characterized by elevated levels of inorganic indicator parameters and dissolved phase VOC. Impacts in the shallow aquifer appear to be generally decreasing with time.

Groundwater impact in the deep aquifer has been observed to the north of the Nepean Landfill site, along the flow path to the Dewatering Pond, located 1.2 km northwest of the Phase One property, which is the discharge point for the deep aquifer. A small zone of impact in the deep aquifer is also present in the vicinity of BH16-1, which is north adjacent to the Phase One property (Figure 2). Impacts in this area appear to be generally decreasing or stable.

The following monitoring wells are present adjacent to the Phase One property:

- BH107-1 – 20 m northwest across Trail Road
- BH107-2 – 20 m northwest across Trail Road
- BH125-1 – Adjacent to the south property boundary
- BH125-2 – Adjacent to the south property boundary
- BH16-1 – Adjacent to the northwest property boundary
- BH16A-1 – Adjacent to the northwest property boundary
- MW58-1 – 80 m northwest

The locations of the adjacent wells are shown on Figure 2.

VOC impact has been observed in BH16-1 during all annual sampling events between 2012 and 2019, except for in 2018 when VOC levels were below the detection limits. The 2012 landfill report stated that the area of impact was localized and appeared to be generally decreasing, indicating that the VOC impact was present in this area prior to 2012. The most significant VOC impacts are in the upper/middle part of the deep aquifer. Concentrations of VOC in 2019 were below the Ontario Drinking Water Standards (ODWS). VOCs were non-detect in BH16A-1, which is installed in the lower part of the deep aquifer. No VOCs have been detected in the lower part of the deep aquifer in any of the wells adjacent to the Phase One property. In 2019, the data from M125-1 and M125-2 showed slightly elevated levels of leachate indicator parameters when compared to historic data. The impacts at BH16-1 predates Drain-All's acquisition of the subject property.

3.6 Environmental Source Information

Information pertaining to the Phase One property was obtained by reviewing documents that are available to the public through municipal and provincial sources. EXP did not identify the need to contact any federal agencies.

Written responses from regulatory agencies and copies of documents obtained via searches are provided in Appendix D.

3.6.1 Ontario Ministry of the Environment, Conservation and Parks Records

Records pertaining to the site were requested from the Ministry of the Environment, Conservation and Parks (MECP) through the *Freedom of Information and Protection of Privacy Act* (FOI).

To date, no response has been received. If environmentally significant information is obtained from the MECP search, it will be provided as an addendum to this report.

3.6.2 Historical Land Use Inventory

EXP requested records for the site and surrounding are from the City of Ottawa Hazardous Land Use Inventory (HLUI) database. A response was received from the City of Ottawa in August 2022. A copy of the HLUI response is provided in Appendix C.

The Trail Road Landfill was identified to the north of the Phase One property (PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners).

Several quarries were identified in the Phase One study area, including one of the Phase One property. Quarry operations are not considered to result in environmental concerns to the site.

3.6.3 Environmental Registry

On August 29, 2023, the MECP Environmental Registry website was searched for postings in the vicinity of the Phase One property.

Drain-All Ltd. submitted an application in February 2021 for an ECA (waste disposal site-processing) for an excess soil operation at the Phase One property.

3.6.4 Environmental Access

On August 29, 2023, the MECP Environmental Access website was searched for postings within the Phase One study area. There were twenty-two records associated with the operation of the Nepean and Trail Road Landfills.

Six of the records were for the stormwater management system and contaminated groundwater collection and treatment system. The groundwater extraction wells, and treatment system are located 800 m west of the Phase One property on the west side of Moodie Drive. The groundwater extraction and treatment system was operational between 2006 and 2019. Stormwater infrastructure consists mainly of infiltration ponds located west of the Phase One property.

Fifteen of the records were for air emissions and waste disposal associated with the operation of an energy-from-waste demonstration facility to process and convert non-hazardous municipal waste materials using Plasma Gasification technology to a synthetic gas and solid residue (slag). The facility is located 130 m west of the Phase One property and is no longer operational.

3.6.5 Hazardous Waste Program Registry

On August 29, 2023, the MECP Hazardous Waste Program (HWP) Registry website was searched for registered waste generators within the Phase One study area. The following records were found:

Location (Generator)	Proximity to the Site	Wastes Generated	Environmental Concern to Site (Yes/No) & Rationale
Integrated Gas Recovery Services 4475 Trail Road (ON7434194)	50 m north	Waste oils and lubricants, oil skimmings and sludges, petroleum distillates, aliphatic solvents, landfill leachates	Yes, due to the proximity to the Phase One property.

Location (Generator)	Proximity to the Site	Wastes Generated	Environmental Concern to Site (Yes/No) & Rationale
City of Ottawa – Trail Road 4475 Trail Road (ON0303115)	50 m north	Waste compressed gases, waste oils and lubricants, oil skimmings and sludges, halogenated pesticides, aliphatic solvents, landfill leachates, inorganic laboratory chemicals, paint/pigment/coating residues	Yes, due to the proximity to the Phase One property.

The Trail Road landfill is a PCA property (PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners).

3.6.6 Former Industrial Sites

The document entitled *Mapping and Assessment of Former Industrial Sites – City of Ottawa* prepared by Intera, July 1988 was reviewed. The Phase One study area is outside of the bounds of this document.

3.6.7 Records of Site Condition

On May 10, 2022, the MECP Brownfields Registry website was searched for postings of Records of Site Condition (RSC) within the Phase One study area. No records were found.

3.6.8 Coal Gasification Plants

Documents entitled *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario* prepared by the MECP and *Inventory of Coal Gasification Plant Waste Sites in Ontario* prepared by Intera Technologies Ltd. were reviewed. There were no coal gasification plants identified within the Phase One study area.

3.6.9 PCB Storage Sites

The document entitled *Ontario Inventory of PCB Storage Sites* prepared by the MECP were reviewed. There were no PCB storage sites identified within the Phase One study area.

3.6.10 Waste Disposal Sites

Documents entitled *Old Landfill Management Strategy, Phase 1, Identification of Sites, City of Ottawa, Ontario* prepared by Golder Associates Ltd. and *Waste Disposal Site Inventory* prepared by the MECP were reviewed.

The Nepean Landfill, which is now closed, is located west adjacent to the Phase One property. The Nepean Landfill site operated between 1960 and 1980 and was capped with a low permeability cover in 1993. A groundwater monitoring program has been in place since at least 2003.

The Trail Road landfill was opened in the 1980s and is located 50 m north of the Phase One property, across Trail Road. Permission for expansion was granted by the MECP in 2005. The groundwater monitoring program is conducted in conjunction with the Nepean Landfill monitoring program.

3.6.11 Street Directories

Records pertaining to the Phase On property were requested from the EcoLog Environmental Risk Information Services (or EcoLog ERIS) for the municipal street directories in the Phase One study area. No street directories were available for the Phase One study area.

3.7 EcoLog ERIS Database Search

A search of provincial and federal databases for records pertaining to the Phase One property and properties within the Phase One study area was conducted by EcoLog ERIS. EXP has confirmed neither the completeness nor the accuracy of the records that were provided. A summary of the more significant findings is provided below. A copy of the EcoLog ERIS report is provided in Appendix D.

The following is noted:

- The Water Well Information System identified 16 records for the Phase One study area. Three of the well records were determined not to be actually located in the Phase One study area. Four of the well records were for monitoring wells, and four of the records were for well abandonment. The remainder of the records were for water supply wells. Of the water supply wells, the buildings associated with two of these well records have been demolished. Although there are no abandonment records for these two wells, it is assumed that these wells have been decommissioned. Additionally, abandonment records indicate one of the supply wells was abandoned, and one was converted to a monitoring well. One of the wells in the Phase One study area may still be present at the former Plastec building west of the Phase One property.
- The Ontario Spills database identified an overflowing storm drain spilling over into a municipal drain in 2011 at the Plasco demo facility (4420 Trail Road).
- The Environmental Registry identified one record for the Phase One property. The record was for Drain-All's application for an ECA for waste management in February 2021 for operation of the Phase One property as an excess soil disposal site.
- The Certificates of Approval database and Environmental Compliance Approval database identified 22 records in the Phase One study area. Six of the records were for the stormwater management system and contaminated groundwater collection and treatment system. The groundwater extraction wells, and treatment system are located 800 m west of the Phase One property, on the west side of Moodie Drive. The groundwater extraction and treatment system was operational between 2006 and 2019. Stormwater infrastructure consists mainly of infiltration ponds located west of the Phase One property. Fifteen of the records were for air emissions and waste disposal sites associated with the operation of an energy-from-waste demonstration facility to process and convert non-hazardous municipal waste materials using Plasma Gasification technology to a synthetic gas and solid residue (slag). The facility is located 130 m west of the Phase One property and is no longer operational.

Other than those previously identified, no additional PCAs were identified.

3.8 Physical Setting Sources

3.8.1 Aerial Photographs

Aerial photographs dated 1976, 1991, 1999, 2005, 2008, 2015, and 2019 were available for review on the City of Ottawa website. Aerial photographs dated prior to 1976 were not available for review. The following table summarizes the development and land use history of the Phase One property and adjacent properties as depicted on the reviewed aerial photographs. Copies of the aerial photographs are provided in Appendix E.

Year	Details
1976	The Phase One property, as well as the adjacent properties to the east and south appear to be operating as aggregate resources. The Nepean Landfill is present to the west of the Phase One property. The remainder of the Phase One study area consists of farmland.

Year	Details
1991	Additional material has been removed from the Phase One property, and aggregate piles are present on the site. Expansion of aggregate resource activities has occurred on the south adjacent properties. The Trail Road landfill is present to the north of the Phase One property across Trail Road.
1999	No significant changes on the Phase One property or adjacent and surrounding properties.
2005	Quarry operations, no longer appear active on the site or south adjacent property. The excavated area on the south adjacent property has filled with water (South Aggregate Ponds).
2008	The Phase One property is similarly developed to the 2005 aerial photograph. The Plastec energy-from-waste demonstration facility has replaced the existing budling on the property to the west. Trail Road landfill operations have expanded to the east.
2015	The Phase One property is in use as a soil disposal site. The de-canting area for liquid soils is visible at the northwest corner of the site. No significant changes were observed on the adjacent and surrounding properties.
2019	No significant changes on the Phase One property or adjacent and surrounding properties.

No additional PCAs were identified in the aerial photographs that had not been previously identified.

3.8.2 Topography, Hydrology, Geology

Bedrock and surficial geology were reviewed via the Google Earth applications published by the Ontario Ministry of Energy, Northern Development and Mines. The bedrock geology application is available via www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/bedrock-geology and was last modified on March 19, 2018. The surficial geology application is available via www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/surficial-geology and was last modified on May 23, 2017.

Bedrock geology in the Phase One study area consists of Paleozoic limestone, dolostone, and shale. The Oxford Formation is present underlying the Phase One property. The Oxford Formation is characterized by dark to light grey dolostone. Bedrock elevations are between 66 to the east of the Phase One property and 79 m masl to the west of the Phase One property. Boreholes logs for the boreholes near the Phase One property identified limestone bedrock between 17 and 37 metres below ground surface. A silty cobbly till was encountered overlying the bedrock in some of the boreholes.

Based on published surficial geology mapping, the Phase One study area is characterized by low relief deposits of clay interspersed by glacio-fluvial eskers and faulted bedrock. Sediments were deposited during as glaciers retreated which resulted in linear accumulation of glaciofluvial deposits. One such ridge is present in the Phase One study area, which trends to the northwest-southeast. The Phase One property is located on the south side of this ridge. Following the intrusion of the Champlain Sea, these glaciofluvial deposits were completely or partially buried by sensitive marine clays. Ottawa Valley Clay Plains were deposited by the expansion of the Champlain Sea, as glaciation retreated to the north. Thick layers of clay and silt were deposited in deep marine basins. The Champlain Sea deposits are overlain by reworked beach sand, deposited as the Champlain Sea receded.

Drift thickness maps indicate that overburden drift thickness is generally greater than 15 metres in the area Phase One study area. Previous investigations have identified glaciofluvial deposits between 30 and 35 metres in thickness present in the Phase One study area. Although sensitive marine clays were normally deposited throughout the study area, borehole logs for the boreholes near the Phase One property have identified a stratified sand and gravel layer from surface to bedrock or borehole termination. It is noted in the Aggregate Resource Inventory of the City of Ottawa, that due to isostatic uplift some of the glaciofluvial ridges in the Ottawa area were only partially buried by sensitive marine clays and may project upwards through the marine deposits. Based on the lack of sensitive marine clays present in boreholes logs on the Phase One property, it is inferred that the site is located in one of these areas.

A topographic survey completed by EXP in February 2022 indicated the surface elevation of the Phase One property ranges between approximately 99.5 metres above sea level (masl) at the west end of the Phase One property to 101.8 masl at the east end of the Phase One property. Trail Road is approximately 110.5 masl.

As the Phase One property, and surrounding properties to the south (South Aggregate Ponds) have been used as aggregate resources and as landfills, the topography varies significantly locally.

3.8.3 Fill Materials

Between 2015 and 2020, the Phase One property received approximately 30,000 tonnes of clean soil. Imported fill material consists of excess soil generated from various construction sites throughout the region. The soils are sourced from clients who are performing scheduled or emergency maintenance of utilities.

Prior to accepting the soil at the job site, the operators screen the site for indications of potential impact. When arriving to the Phase One property, soil is temporarily stockpiled and assigned a unique lot number that corresponds to screening and associated laboratory testing. Soils are tested as per the Soil Management Protocol (Section 3.9) that was communicated with the MECP. Soils that meet the Table 2 or 2.1 standards are utilized to fill in the Site in a staged approach. Soils that do not meet the Table 2 or 2.1 standards are transported off-site to a licensed waste disposal site.

3.8.4 Water Bodies and Areas of Natural Significance

The Phase One property is located on the north boundary of the Mud Creek watershed. Properties to the east are part of the Jock River – Leamy Creek Watershed, and properties to the north are part of the Jock River Barrhaven watershed.

The South Aggregate Ponds (Burnside Ponds) are present south adjacent to the Phase One property. The ponds were generated by aggregate extraction activities on the property. Due to extraction activities, the elevation of the ponds is significantly lower than surrounding properties. The ponds have no outlet and can therefore be considered representative of the local water table (shallow aquifer).

The Nepean Landfill groundwater monitoring program has identified groundwater flow direction to be to the north, west, and southwest from the Site.

There is a dewatering pond associated with landfill operations located north of Cambrian Road, approximately 1.2 km northwest of the Phase One property. A permit to take water (PPTW) is in place for the discharge of water from the Dewatering Pond (Number 3862-89YP6V). The PTTW limits the discharge rate from the Dewatering Pond to 4,500 L/min (6,480,000 L/day). During 2019, the discharge frequently exceeded this rate. The Dewatering Pond discharges to the Jock River.

A groundwater extraction and treatment system was installed to the west of the Phase One property along Moodie Drive in 2006. The system consists of six (6) extraction wells located along Moodie Drive. When operating, the observed drawdown in most monitoring well locations was within seasonal variation (0.2 to 0.5 m). The groundwater treatment system was not operational in 2019 and is set to be decommissioned.

The presence of these surface water bodies, particularly the Dewatering Pond, influence the groundwater flow patterns in the area. Based on recent monitoring of groundwater levels on the Phase One property, the groundwater flow direction on the site appears to be to the northwest.

There are no Area of Natural Significance (ANSI) within the Phase One study area, according to the Ministry of Natural Resources and Forestry Natural Heritage website (www.gisapplication.lrc.gov.on.ca/mamnh/Index.html).

3.8.5 Well Records

The Ontario well records website (www.ontario.ca/map-well-records water wells) was accessed. There were nine well records within the Phase One study area.

Four of the well records were for monitoring wells, presumably installed as part of the landfill groundwater monitoring program. Five of the well records were for water supply wells. Based on the well locations and descriptions, the buildings associated with two of these well records have since been demolished. Although there are no abandonment records for these two wells, it is assumed that these wells have been decommissioned. Additionally, abandonment records indicate one of the supply wells was abandoned, and one was converted to a monitoring well. One of the wells in the Phase One study area may still be present, for the former Plastec building west of the Phase One property.

There are seven monitoring wells present on the Site. Two monitoring wells (P-1/MW-1 and P-2/MW-2) were installed as part of the Nepean Landfill monitoring program, two monitoring wells (MW-3 and MW-4) were installed prior to Drain-All's acquisition of the Phase One property but have not been involved in previous landfill monitoring programs, and three monitoring wells (MW-5, MW-6, and MW-7) were installed on the Phase One property in May 2022 as part of a new groundwater monitoring program at the Phase One property. The monitoring wells are shown on Figure 2.

There are no oil, gas, or salt wells within the Phase One study area, according to the Oil, Gas & Salt Resources Library (maps.ogsrlibrary.com/wells/).

3.9 Site Operating Records

Drain-All Ltd. is a licensed waste management facility for the management, transportation, storage, transfer, and processing of solid non-hazardous waste, solid hazardous waste, liquid industrial waste, and liquid hazardous waste in the province of Ontario.

Since 2015, Drain-all has been operating the Phase One property as a receiver site for unimpacted excess liquid soil generated from various construction sites throughout the region. In December 2020, Drain-All applied for an Environmental Compliance Approval (ECA) to continue the operations in accordance with *Ontario Regulation 406/19 On-Site and Excess Soil Management.*

A summary of the site operations plan was provided to EXP. Following source site screening, excavated soils that are transported for placement and storage at 4380 Trail Road are accepted in the following manner:

- The liquid portion of soils that are excavated with a hydro vacuum truck using municipal water is decanted in Area A (Figure 2).
- The solid portion of the hydro-vac loads are temporarily placed in Area A.
- Other dry soils are temporarily placed in Area B (Figure 2).
- The temporarily stockpiled soils are assigned a unique lot number that corresponds to screening and associated laboratory testing.
- The analytical results will be compared to Table 2 or 2.1 Excess Soil Quality Standards (ESQS)
- Soils that meet the Table 2 or 2.1 standards are utilized to fill in the Site in a staged approach.
- Soils that do not meet the Table 2 or 2.1 standards are transported off-site to a licensed waste disposal site.

Each load delivered to the Phase One property forms part of a composite sample and is tested internally on a weekly basis for flashpoint, pH, polychlorinated biphenyls (PCB), oxidizer, and metals.

A monthly composite is sent out to an external lab for analysis of chromium VI, cyanide, mercury, PCBs, pH, PHC, ABN, PAH, metals, VOC.

Should any composite analytical test result show that a batch of soil is not suitable for placement and storage at the Phase One property, the composite can be reanalyzed with each discreet sample which formed a portion of the original composite sample. This will identify the specific load(s) of soil forming a portion of the original composite batch that exceeded one or more parameters.

In 2019, one load of soil was rejected based on a lead exceedance of the Table 6 SCS. The soil lot that was recorded with the unique lot number was removed from the Phase One property and disposed of at a licensed waste disposal site.

4.0 Interviews

The purpose of interviews is to obtain information to assist in identifying areas of potential environmental concern and identify details of potentially contaminating activities or potential contaminant pathways, in, on or below the Phase One property.

Mr. David Elsie, Manager of Transfer and Processing Facility for GFL was interviewed on December 16, 2021. Mr. Elsie provided background documentation and described the overall process of the receiver site activities for unimpacted excess soil procedures. Drain-All has owned the Phase One property since 2013. Mr. Elsie was unaware of environmental issues with the property.

Drain All Ltd. is involved in the removal of excess soils and fill that are not from areas of environmental concern or known historical contamination. The removal of these soils is undertaken on behalf of clients who are performing scheduled or emergency maintenance of utilities, such as electrical, natural gas, water, or telecommunications. The work is primarily conducted in residential settings; however, it may include commercial and industrial areas.

Drain-All has owned the Phase One property since 2013. Since 2015, the Phase One property has been accepting clean soil and up until 2020 the Phase One property has received approximately 30,000 tonnes of clean soils.

Soils that are transported for placement and storage are deposited in the following manner:

- Liquid soils have the liquid portion placed in Zone A, shown on Figure 2. The solid portion of the loads are placed in Zone B. In this area the load is assigned a unique lot number that will correspond to the completed lab analytical confirming that the load is suitable to be moved for storage.
- Dry soils are placed in Zone B (Figure 2). In this area the load is assigned a unique lot number that will correspond to the completed lab analytical confirming that the load is suitable to be moved for storage.
- All soil loads brought to the Phase One property is subject to analytical testing.

Upon review of the completed analytical the soil is utilized to rebuild roadways and fill in low lying areas within the property.

In 2019, Drain-All removed one load of soil from the Phase One property that exceeded the Table 6 site condition standards for lead and disposed of it to a licensed waste disposal site.

Mr. Richard Roth, Director, Eastern Operations for GFL was also an executive with Bakermet Inc. who owned the property between 1998 and 2008. Mr. Roth was unaware of any environmental issues with the Phase One property.

5.0 Site Reconnaissance

5.1 General Requirements

On April 19, 2022, Ms. Leah Wells, of EXP conducted the site visit. The was followed up with site visits completed by Chris Kimmerly in May 2023 and July 2023. The site visits were conducted to assess the current conditions of the Phase One property.

The general environmental management and housekeeping practices at the Phase One property were reviewed as part of this assessment insofar as they could impact the environmental condition of the property; however, a detailed review of regulatory compliance issues was beyond the scope of EXP's investigation.

Observations of the subject property and surrounding properties were made. The site reconnaissance began at approximately 2:00 p.m. and lasted approximately 1 hour. The weather was approximately 5°C and overcast. Adjacent properties were observed from within the grounds of the Phase One property, as well as publicly accessible areas. Photographs documenting the site visit are included in Appendix H.

5.2 Specific Observations at the Phase One Property

The Phase I property consists of a pit, which was formerly operated as a gravel pit. Drain-All acquired the property in 2015. Since then, the Phase One property has been used as a receiving site for clean excess soils generated during emergency maintenance of utilities.

5.2.1 Buildings and Structures

There are no buildings present on the Phase One property. A shipping container is present at the centre of the Phase One property which is used for storage.

5.2.2 Site Utilities and Services

The Phase One property is not currently serviced by water or sewer. The property was serviced by overhead hydro.

5.3 Storage Tanks

5.3.1 Underground Storage Tanks

No USTs were observed on the Phase One property.

5.3.2 Above Ground Storage Tanks

There is a fuel above grounds storage tank (AST) present inside the shipping container for fueling the machinery on-site. No staining or signs of leakage were noted.

5.4 Chemical Storage Handling and Floor Condition

A rack holding jerry cans was present on the south side of the shipping container. No other chemicals are stored at the Phase One property.

5.5 Areas of Stained Soil, Pavement or Stressed Vegetation

The majority of the Phase One property was occupied by a pit excavation at the time of the site visit. Vegetation was limited to the perimeter of the Phase One property but did not appear to be stressed.

5.6 Fill and Debris

There are significant quantities of fill material present at the Phase I property. Imported fill material consists of unimpacted excess soil generated from various construction sites throughout the region. The soils are sourced from clients who are performing scheduled or emergency maintenance of utilities.

As part of the site operating procedure, fill material is temporarily stockpiled pending the results of analytical testing (Section 3.9). If the soils meet the applicable standards, the soil is used to in-fill low lying areas on the Phase One property.

5.7 Air Emissions

As the Phase One property was vacant, there was no evidence of air emissions.

5.8 Odours

No odours were present during the site visit.

5.9 Noise

No excessive noise was heard during the site visit.

5.10 Other Observations

There were no pits and lagoons, no railways or spurs and no unidentified substances observed on the Phase One property.

5.11 Special Attention Items, Hazardous Building Materials and Designated Substances

No buildings were present on the Phase One property. Therefore, there was no evidence of any special attention items, hazardous building materials or designated substances (asbestos, zone depleting substances, lead, mercury, polychlorinated biphenyls (PCB), urea formaldehyde foam insulation, mould other special attention substances).

5.12 Abandoned and Existing Wells

There is no evidence that there are any water supply wells on the Phase One property. There are seven monitoring wells present on the Phase One property used for groundwater monitoring.

5.13 Roads, Parking Facilities and Right of Ways

Vehicular access to the Phase One property is from Trail Road.

5.14 Adjacent and Surrounding Properties

A visual inspection of the adjacent properties and properties within 250 m of the Phase One property was conducted from publicly accessible areas to identify the occupants and document the uses and sources of potential environmental concerns that may impact the Phase One property. Refer to Figure 3 in Appendix C for the adjacent land uses.

The following land uses border the Phase One property:

- North: Trail Road, followed by the Trail Road Landfill;
- East: South Aggregate Ponds;
- West: Nepean Landfill (closed); and
- South: South Aggregate Ponds.

No additional PCAs were identified during the site visit that were not previously identified.

5.15 Enhanced Investigation Property

Ontario Regulation 153/04 defines an enhanced investigation property as a "property that is used, or has ever been used, in whole or in part for an industrial use or any of the following commercial uses: a garage; a bulk liquid dispensing facility, including a gasoline outlet; or, for the operation of dry-cleaning equipment."

Therefore, as previous quarry investigations are defined as industrial, in accordance with Regulation 153/04, the property is considered to be an enhanced investigation property.

5.16 Summary and Written Description of Investigation

Since 2015, Drain-all has been operating the Site as a receiver site for excess soil generated from various construction sites throughout the region. The soils are sourced from clients who are performing scheduled or emergency maintenance of utilities, such as electrical, natural gas, water, or telecommunications predominantly in urban residential, parks and recreational spaces.

The following on-site PCAs were identified:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks

The following off-site PCAs were identified:

- PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

6.0 Review and Evaluation of Information

6.1 Current and Past Uses

Based on a review of historical aerial photographs, historical maps, and other records, the Phase One property appears to have been used as an aggregate resource between the 1970s and the 1990s. As of 2015, Drain-all has been operating the Phase One property as a receiver site for unimpacted excess soil.

6.2 Potentially Contaminating Activity

Ontario Regulation (O. Reg.) 153/04 defines a Potential Contaminating Activity (PCA) as one of fifty-nine (59) industrial operations set out in Table 2 of Schedule D that occurs or has occurred in the Phase One study area. The following PCAs were identified in the Phase One study area:

- **PCA 1** – 4380 Trail Road (Phase One property) – Fuel AST for on-site equipment (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks);
- **PCA 2** – Trail Road Landfill (50 m north) – Active landfill, in operation since the 1980s (PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners);
- **PCA 3** – Nepean Landfill (west adjacent) – Former landfill, operated between the 1960s and 1980s (PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners).

6.3 Areas of Potential Environmental Concern

Ontario Regulation 153/04 defines an APEC as an area on a property where one or more contaminants are potentially present.

The fuel AST is located inside of a shipping container. No significant staining was observed on the floor of the containing or the ground in the vicinity of the container. The fuel AST does not result in an APEC.

The Nepean and Trail Road Landfills have been monitored since at least 2003. Based on a review of the available reports (2012 to 2019), localized areas impacted by leachate have been identified area, one of which west of the Phase One property. Based on the groundwater flow direction at the Phase One property, the leachate impacted area is cross-gradient of the Phase One property. In addition, as part of the groundwater monitoring program for the Phase One property, five monitoring wells on the Phase One property were sampled in June 2022 as part of a monitoring program for analysis of VOC, PHC, PAH, and inorganics. All the results were within the Table 2 potable groundwater standards. Therefore, there leachate from the landfills does not appear to be impacting the Phase One property.

None of the PCAs are considered to results in APECs.

6.4 Phase One Conceptual Site Model

A conceptual site model (CSM) is intended to summarize the conditions at the Phase One property. A CSM showing the topography of the site, inferred groundwater flow, general site features, APEC, and PCA is shown in Figure 2. To develop a CSM for the Phase One property, the physical characteristics and pathways outlined in the following sections were considered.

6.4.1 Buildings and Structures

No buildings or structures are present on the Phase One property.

6.4.2 Water Bodies and Groundwater Flow Direction

There are no water bodies on the Phase One property.

The South Aggregate Ponds (Burnside Ponds) are present south adjacent to the Phase One property. The ponds were generated by aggregate extraction activities on the property. Due to extraction activities, the elevation of the ponds is significantly lower than surrounding properties. The ponds have no outlet and can therefore be considered representative of the local water table (shallow aquifer).

The Nepean Landfill groundwater monitoring program has identified groundwater flow direction to be to the north, west, and southwest from the Site.

There is a watering pond associated with landfill operations located north of Cambrian Road, approximately 1.2 km northwest of the Phase One property. A permit to take water (PPTW) is in place for the discharge of water from the Dewatering Pond (Number 3862-89YP6V). The PTTW limits the discharge rate from the Dewatering Pond to 4,500 L/min (6,480,000 L/day). During 2019, the discharge frequently exceeded this rate. The Dewatering Pond discharges to the Jock River.

A groundwater extraction and treatment system was installed to the west of the Phase One property along Moodie Drive in 2006. The system consists of six (6) extraction wells located along Moodie Drive. When operating, the observed drawdown in most monitoring well locations was within seasonal variation (0.2 to 0.5 m). The groundwater treatment system was not operational in 2019 and is set to be decommissioned.

The presence of these surface water bodies, particularly the Dewatering Pond, influence the groundwater flow patterns in the area. Based on recent monitoring of groundwater levels on the Phase One property, the groundwater flow direction on the site appears to be to the northwest.

6.4.3 Areas of Natural Significance (ANSI)

There are no ANSI within the Phase One study area.

6.4.4 Water Wells

There were nine well records within the Phase One study area. Four of the well records were for monitoring wells, presumably installed as part of the landfill groundwater monitoring program. Five of the well records were for water supply wells. Based on the well locations and descriptions, the buildings associated with two of these well records have since been demolished. Although there are no abandonment records for these two wells, it is assumed that these wells have been decommissioned. Additionally, abandonment records indicate one of the supply wells was abandoned, and one was converted to a monitoring well. One of the wells in the Phase One study area may still be present, for the former Plastec building west of the Phase One property.

There are seven (7) monitoring wells present on the Site. Two monitoring wells (P-1/MW-1 and P-2/MW-2) were installed as part of the Nepean Landfill monitoring program, two monitoring wells (MW-3 and MW-4) were installed prior to Drain-All's acquisition of the Phase One property but have not been involved in previous landfill monitoring programs, and three monitoring wells (MW-5, MW-6, and MW-7) were installed on the Phase One property in May 2022 as part of a new groundwater monitoring program at the Phase One property.

6.4.5 Potentially Contaminating Activity

The following on-site PCAs were identified:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks

The following off-site PCAs were identified:

- PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

6.4.6 Areas of Potential Environmental Concern

Ontario Regulation 153/04 defines an APEC as an area on a property where one or more contaminants are potentially present.

The fuel AST is located inside of a shipping container. No staining was observed on the floor of the containing or the ground in the vicinity of the container. The fuel AST does not result in an APEC.

The Nepean and Trail Road Landfills have been monitored since at least 2003. Based on a review of the available reports (2012 to 2019), localized areas impacted by leachate have been identified area, one of which west of the Phase One property. Based on the groundwater flow direction at the Phase One property, the leachate impacted area is cross-gradient of the Phase One property. In addition, as part of the groundwater monitoring program for the Phase One property, five monitoring wells on the Phase One property were sampled for analysis of VOC, PHC, PAH, and inorganics. All the results were within the Table 2 potable groundwater standards. Therefore, there leachate from the landfills does not appear to be impacting the Phase One property.

None of the PCAs are considered to results in APECs.

6.4.7 Underground Utilities

The Phase One property is not currently serviced. Overhead hydro was present on the site.

Surrounding properties are serviced by private wells and septic systems.

6.4.8 Subsurface Stratigraphy

Bedrock geology in the Phase One study area consists of Paleozoic limestone, dolostone, and shale. The Oxford Formation is present underlying the Phase One property. The Oxford Formation is characterized by dark to light grey dolostone. Bedrock elevations are between 66 to the east of the Phase One property and 79 m masl to the west of the Phase One property. Boreholes logs for the boreholes near the Phase One property identified limestone bedrock between 17 and 37 metres below ground surface. A silty cobbly till was encountered overlying the bedrock in some of the boreholes.

Based on published surficial geology mapping, the Phase One study area is characterized by low relief deposits of clay interspersed by glacio-fluvial eskers and faulted bedrock. Sediments were deposited during as glaciers retreated which resulted in linear accumulation of glaciofluvial deposits. One such ridge is present in the Phase One study area, which trends to the northwest-southeast. The Phase One property is located on the south side of this ridge. Following the intrusion of the Champlain Sea, these glaciofluvial deposits were completely or partially buried by marine clays. Ottawa Valley Clay Plains were deposited by the expansion of the Champlain Sea, as glaciation retreated to the north. Thick layers of clay and silt were deposited in deep marine basins. The Champlain Sea deposits are overlain by reworked beach sand, deposited as the Champlain Sea receded.

6.4.9 Uncertainty Analysis

The CSM is a simplification of reality, which aims to provide a description and assessment of any areas where potentially contaminating activity that occurred within the Phase One study area may have adversely affected the Phase One property. All information collected during this investigation, including records, interviews, and site reconnaissance, has contributed to the formulation of the CSM.

Information was assessed for consistency, however EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others. All reasonable inquiries to obtain accessible information were made, as required by Schedule D, Table 1, Mandatory Requirements for Phase One Environmental Site Assessment Reports. The CSM reflects our best interpretation of the information that was available during this investigation.

7.0 Conclusions

Based on a review of historical aerial photographs, historical maps, and other records, the Phase One property appears to have been used as an aggregate resource between the 1970s and the 1990s. As of 2015, Drain-all has been operating the Phase One property as a receiver site for unimpacted excess soil.

As part of the site operating procedure, fill material is temporarily stockpiled pending the results of analytical testing. If the soils meet the applicable standards, the soil is used to in-fill low lying areas on the Phase One property. Between 2015 and 2020, the Phase One property received approximately 30,000 tonnes of clean soil. Imported fill material consists of unimpacted excess soil generated from various construction sites throughout the region. The soils are sourced from clients who are performing scheduled or emergency maintenance of utilities. In 2019, one load of soil was rejected based on a lead exceedance of the Table 6 SCS. The soil lot was removed from the Phase One property and disposed of at a licensed waste disposal site.

There are seven monitoring wells present on the Site. Two monitoring wells (P-1/MW-1 and P-2/MW-2) were installed as part of the Nepean Landfill monitoring program, two monitoring wells (MW-3 and MW-4) were installed prior to Drain-All's acquisition of the Phase One property but have not been involved in previous landfill monitoring programs, and three monitoring wells (MW-5, MW-6, and MW-7) were installed on the Phase One property in May 2022 as part of a new groundwater monitoring program at the Phase One property.

As part of the semi-annual monitoring program the first round of groundwater sampling was completed on June 8, 2022. Groundwater samples were collected from five wells (three due to proximity to site activities and/or downgradient location, and two to establish baseline levels) and submitted for analysis of VOC, PHC, PAH, and inorganics. All of the groundwater samples were within the Table 2 potable groundwater standards for all of the parameters analysed.

The following on-site PCAs were identified:

- PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks

The following off-site PCAs were identified:

- PCA #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

The fuel AST is located inside of a shipping container. No significant staining was observed on the floor of the containing or the ground in the vicinity of the container.

The groundwater in the vicinity of the Nepean and Trail Road Landfills have been monitored since at least 2003. Based on a review of the available reports (2012 to 2019), localized areas impacted by leachate have been identified area, one of which west of the Phase One property. Based on the groundwater flow direction at the Phase One property, the leachate impacted area is cross-gradient of the Phase One property. In addition, as part of the groundwater monitoring program for the Phase One property, five monitoring wells on the Phase One property were sampled for analysis of VOC, PHC, PAH, and inorganics. All the results were within the Table 2 potable groundwater standards. Therefore, there leachate from the landfills does not appear to be impacting the Phase One property.

None of the PCAs identified in the Phase One study area are considered to result in APECs.

The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The Qualified Person who oversaw this work, Chris Kimmerly, P.Geo., does not recommend any additional work at the Phase One property other than continuing the semi-annual groundwater monitoring program.

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- Ontario Ministry of Natural Resources and Forestry, Natural Heritage website (www.gisapplication.lrc.gov.on.ca/mamnh/Index.html)
- Natural Resources Canada, The Atlas of Canada – Toporama website (atlas.gc.ca/toporama/en/)
- Rideau Valley Conservation Authority, RVCA Regulations Mapping (https://rvcagis.maps.arcgis.com)

9.0 Limitation of Liability, Scope of Report, and Third-Party Reliance

Basis of Report

This report ("Report") is based on site conditions known or inferred by the investigation undertaken as of the date of the Report. Should changes occur which potentially impact the condition of the site the recommendations of EXP may require re-evaluation. Where special concerns exist or Drain-All Ltd. ("the Client") has special considerations or requirements, these should be disclosed to EXP to allow for additional or special investigations to be undertaken not otherwise within the scope of investigation conducted for the purpose of the Report.

Reliance on Information Provided

The evaluation and conclusions contained in the Report are based on conditions in evidence at the time of site inspections and information provided to EXP by the Client and others. The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose as communicated by the Client. EXP has relied in good faith upon such representations, information and instructions and accepts no responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of any misstatements, omissions, misrepresentation or fraudulent acts of persons providing information. Unless specifically stated otherwise, the applicability and reliability of the findings, recommendations, suggestions or opinions expressed in the Report are only valid to the extent that there has been no material alteration to or variation from any of the information provided to exp. If new information about the environmental conditions at the Site is found, the information should be provided to EXP so that it can be reviewed and revisions to the conclusions and/or recommendations can be made, if warranted.

Standard of Care

The Report has been prepared in a manner consistent with the degree of care and skill exercised by engineering consultants currently practicing under similar circumstances and locale. No other warranty, expressed or implied, is made. Unless specifically stated otherwise, the Report does not contain environmental consulting advice.

Complete Report

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment form part of the Report. This material includes, but is not limited to, the terms of reference given to EXP by the Client, communications between EXP and the Client, other reports, proposals or documents prepared by EXP for the Client in connection with the site described in the Report. In order to properly understand the suggestions, recommendations and opinions expressed in the Report, reference must be made to the Report in its entirety. EXP is not responsible for use by any party of portions of the Report.

Use of Report

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. No other party may use or rely upon the Report in whole or in part without the written consent of EXP. Any use of the Report, or any portion of the Report, by a third party are the sole responsibility of such third party. EXP is not responsible for damages suffered by any third party resulting from unauthorised use of the Report.

Report Format

Where EXP has submitted both electronic file and a hard copy of the Report, or any document forming part of the Report, only the signed and sealed hard copy shall be the original documents for record and working purposes. In the event of a dispute or discrepancy, the hard copy shall govern. Electronic files transmitted by EXP utilize specific software and hardware systems. EXP makes no representation about the compatibility of these files with the Client's current or future software and hardware systems. Regardless of format, the documents described herein are EXP's instruments of professional service and shall not be altered without the written consent of EXP.

10.0 Signatures

We trust this report meets your current needs. If you have any questions pertaining to the investigation undertaken by EXP, please do not hesitate to contact the undersigned. The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

Leah Wells, P.Eng.
Environmental Engineer
Earth and Environment

Chris Kimmerly, P.Geo.
Senior Project Manager
Earth and Environment

PROFESSIONAL GEOSCIENTIST
Christopher Thomas Kimmerly
PRACTISING MEMBER
0703
ONTARIO
Dec 23/2023

Appendix A: Qualifications of Assessors

Qualifications of Assessors

EXP provides a full range of environmental services through a full-time Environmental Services Group. EXP's Earth and Environment Group has developed a strong working relationship with clients in both the private and public sectors and has developed a positive relationship with Ontario Ministry of the Environment, Conservation and Parks. Personnel in the numerous branch offices form part of a large network of full-time dedicated environmental professionals in the EXP organization.

Chris Kimmerly, M.Sc., P.Geo., has more than 30 years of environmental consulting experience, 29 of which have been with EXP. A graduate of Brock University with a Master of Science Degree in Geological Science, His technical experience includes managing, coordinating, and conducting environmental site assessments; groundwater sampling programs; soil and groundwater remedial action and risk mitigation plans; mineral aggregate assessments; hydrogeological and terrain analysis assessments; designated substances and hazardous materials surveys.

Leah Wells, B.A.Sc., P.Eng. has six years of experience in the environmental consulting field. She has worked on numerous Phase I Environmental Site Assessments (ESA); Phase II ESAs, completing soil and groundwater sampling, soil vapour sampling, assisting in report preparation and data entry and analysis. She is licensed as a professional engineer in Ontario.

Appendix B: Figures

exp Services Inc. 100-2650 Queensview Drive Ottawa, ON K2B 8H6 **www.exp.com**	DESIGN CK / LW DRAWN AS DATE JULY 2022 FILE NO OTT-21023795	PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 4380 TRAIL ROAD, OTTAWA, ONTARIO SITE LOCATION PLAN	SCALE 1:25,000 SKETCH NO FIG 1

Filename: \\exp\data\OTT\OTT-21023795-A0\60 Execution\65 Drawings\21023795 – Figure 1.dwg
Last Saved: Jul 13, 2022 9:54 AM Last Plotted: Jul 13, 2022 9:55 AM Plotted by: SeverA

LEGEND

SITE BOUNDARY

250 METRE STUDY AREA

● **PCA 1** POTENTIALLY CONTAMINATING ACTIVITY

Reference Drawing used from *Dillon Consulting Ltd.*, 2019 Nepean Landfill Site Monitoring and Operating Program Final Report

exp Services Inc.
100-2650 Queensview Drive
Ottawa, ON K2B 8H6
www.exp.com

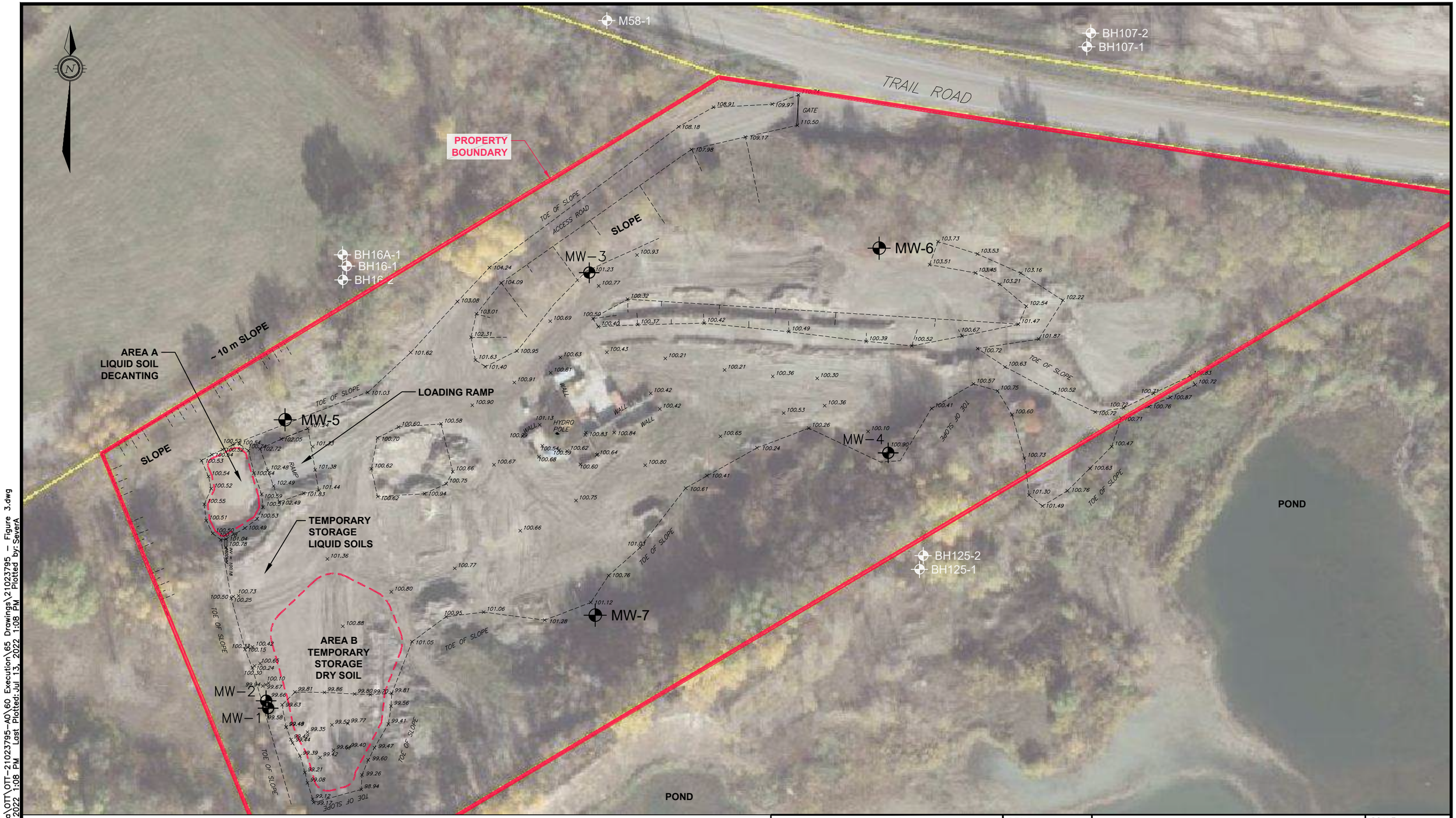
DESIGN	CK / LW
DRAWN	AS
DATE	JULY 2022
PROJECT NO.	OTT-21023795-A0

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
4380 TRAIL ROAD, OTTAWA, ONTARIO

STUDY AREA SITE PLAN

SCALE N.T.S

FIG 2



LEGEND

MONITORING WELL LOCATION — MW-1

GROUND ELEVATION — ×99.58

OFF-SITE MONITORING WELL NO. & LOCATION — BH125-1

0 10m 20m 40m

HORIZONTAL 1:1000

exp Services Inc.
100-2650 Queensview Drive
Ottawa, ON K2B 8H6
www.exp.com

DESIGN	CK / LW
DRAWN	AS
DATE	JULY 2022
FILE NO	OTT-21023795

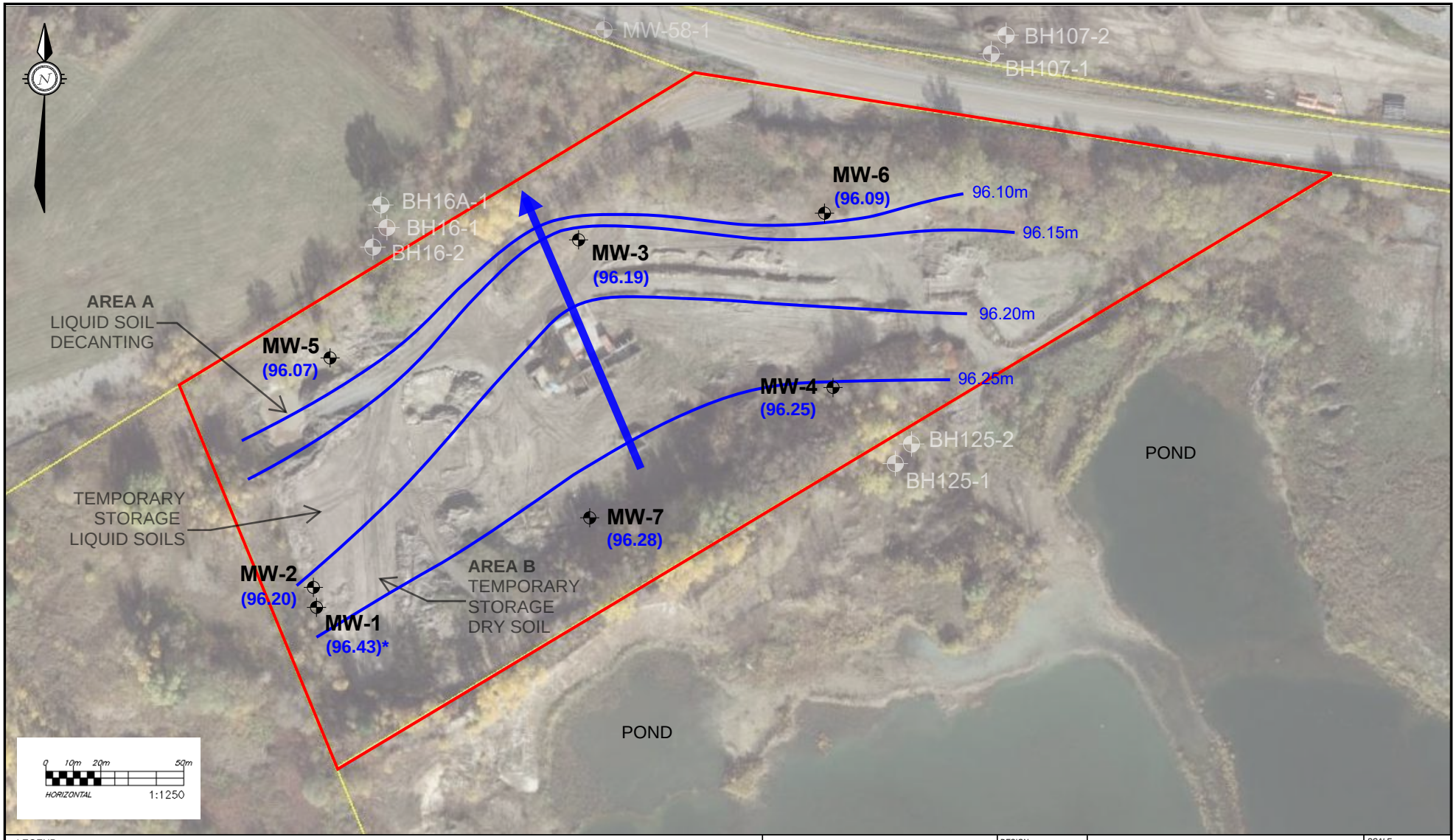
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
4380 TRAIL ROAD, OTTAWA, ONTARIO

SITE LAYOUT

SCALE 1:1000

SKETCH NO FIG 3

Filename: \\exp\data\OTT\OTT-21023795-A0\60 Execution\65 Drawings\21023795 – Figure 3.dwg
Last Saved: Jul 13, 2022 1:08 PM Last Plotted: Jul 13, 2022 1:08 PM Plotted by: SeverA



LEGEND

- SITE BOUNDARY
- MONITORING WELL NAME AND LOCATION (GROUNDWATER ELEVATION)
- **MW-5** GROUNDWATTER SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION
- (95.75m) GROUNDWATER CONTOUR ELEVATION
- (96.20m) GROUNDWATER ELEVATION
- (96.43m)* ELEVATION NOT USED

*GROUNDWATER ELEVATIONS FROM MAY 25, 2022

exp Services Inc.
100-2650 Queensview Drive
Ottawa, ON K2B 8H6
www.exp.com

DESIGN	CK / LW
DRAWN	LW / AS
DATE	JULY 2022
PROJECT NO.	OTT-21023795-A0

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
4380 TRAIL ROAD, OTTAWA, ONTARIO

GROUNDWATER SAMPLING LOCATIONS & FLOW DIRECTION

SCALE 1:1250

FIG 4

Appendix C: Survey

362315, 5010379

TOPOGRAPHIC PLAN OF SURVEY OF

PART OF LOT 8
CONCESSION 4 (RIDEAU FRONT)
GEOGRAPHIC TOWNSHIP OF NEPEAN
CITY OF OTTAWA

FARLEY, SMITH & DENIS SURVEYING LTD. 2022

Scale 1: 400

0 5 10 15 20 30 40 metres

Metric Note

Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.

Bearing Note

Bearings hereon are grid bearings derived from the Can-Net Real Time Network and are referred to the Central Meridian of MTM Zone 9 (76°30' West Longitude) Nad-83 (Original).

Elevation Notes

1. Elevations shown are geodetic and are referred to Geodetic Datum CGVD-1928 :1978. (Monument No. 19770866)
2. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.

Notes & Legend

	Denotes	
—□—	"	Survey Monument Planted
—■—	"	Survey Monument Found
SIB	"	Standard Iron Bar
SSIB	"	Short Standard Iron Bar
(Wit)	"	Witness
Meas	"	Measured
(P1)	"	Plan 5R-11776
(P2)	"	Plan 5R-14496
(P3)	"	Plan 4R-8323
(P4)	"	Plan 4R-7975
—— OHW ——	"	Overhead Wires
O UP	"	Utility Pole
O AN	"	Anchor
P&W	"	Post and Wire Fence
El	"	Elevation

Site Area is 43001.2 square metres.

FILE No.: 158-22

This plan of survey relates to AOLS Plan Submission Form Number V-25590.

Surveyor's Certificate

I certify that :

1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act and the Regulations made under them.
2. The survey was completed on the 20th day of April, 2022.

April 27/22
Date

Jamie Leslie
Ontario Land Surveyor

FARLEY, SMITH & DENIS SURVEYING LTD.

ONTARIO LAND SURVEYORS
CANADA LAND SURVEYORS

Unit 275, 30 COLONNADE ROAD, OTTAWA, ONTARIO K2E 7J6
TEL. (613) 727-8226 E-mail: fsdsurveys@bellnet.ca

J:\2022\158-22_4380 Trail Rd_topo\Final\158-22 4380 Trail Road_LT8 C4RF NP_Topo_F.dwg

TOPO 24X48

GENERAL NOTES:

1. FOR SURVEY, REFER TO TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 8 CONCESSION 4 (RIDEAU FRONT), GEOGRAPHIC TOWNSHIP OF NEPEAN, CITY OF OTTAWA, PREPARED BY FARLEY, SMITH AND DENIS SURVEYING LTD, DATED APRIL 27, 2022.

PROJECT DESCRIPTION:

1. DEVELOPMENT OF THE SITE AS A SOIL DUMP FACILITY.

SITE DATA:

1. SITE AREA: 42,992 m^2/4.299 ha

ZONING:

1. EXISTING ZONING DESIGNATIONS (PART 18):

   PORTION ALONG NORTH-WEST PROPERTY LINE: O1 – PARKS AND OPEN SPACE ZONE
   PORTION ALONG SOUTH-EAST PROPERTY LINE: MR[7r] – MINERAL AGGREGATE RESERVE ZONE

2. PROPOSED ZONING:

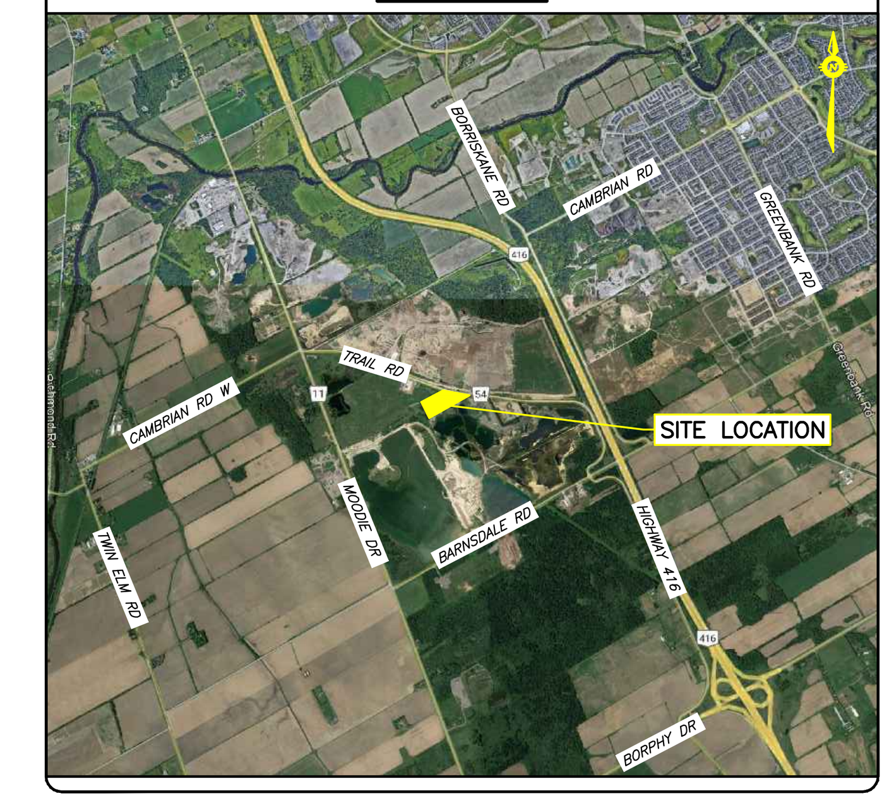
   ENTIRE SITE: RG – RURAL GENERAL INDUSTRIAL ZONE

3. PROPOSED ZONING PROVISIONS:

   RG – RURAL GENERAL INDUSTRIAL ZONE (TABLE 219):

   MIN. LOT WIDTH: 30.0 m
   MIN. LOT AREA: 4000.0 m^2
   MIN. SETBACKS:
   Front Yard: 15.0 m
   Rear Yard: 15.0 m
   Corner Side Yard: 12.0 m
   Interior Side Yard: 3.0 m ABUTTING RG, RH OR RC ZONES
   8.0 m ALL OTHER CASES
   MAX. BUILDING HEIGHT: 15.0 m
   MAX. LOT COVERAGE: 50%

KEY PLAN



LEGEND

— · —	PROPERTY LINE
— —	SETBACK AS PER PROPOSED ZONING PROVISIONS
(stippled)	GRAVEL ACCESS ROAD
	NEW GATE
—x—x—	EXISTING CHAIN LINK FENCE
—x—x—	NEW CHAIN LINK FENCE

CAUTION
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

PRELIMINARY
NOT FOR CONSTRUCTION

REV	REVISION DESCRIPTION	DATE	BY	APPD	REV	REVISION DESCRIPTION	DATE	BY	APPD
					1	ISSUED FOR REVIEW	24/05/22	AJ	AA

SCALE: 0 5m 10m 20m HORIZONTAL 1:500

NORTH

DESIGNED BY

REVIEWED BY

CLIENT: DRAIN–ALL LTD
3385 HAWTHORNE ROAD, OTTAWA, ON.
K1G 4G2 613.739.1070

exp. exp Services Inc.
t: +1.613.688.1899 | f: +1.613.225.7330
2650 Queensview Drive, Unit 100
Ottawa, ON K2B 8H6
Canada
www.exp.com
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

BASEPLAN: AJ
DESIGN: AJ
CHECKED: AA
CAD: AJ
PROJECT MANAGER: AA
APPROVED: AA

PROJECT: ENGINEERING SERVICES FOR 4380 TRAIL ROAD, OTTAWA, ONTARIO.

TITLE: SITE PLAN

PROJECT No.: OTT-21023795-A0
SURVEY: FSD
DATE: 27/04/2022
DRAWING No.: C002

D07-??-??-????

#?????

Appendix D: Title Search, Municipal Records & Provincial Records

May 11, 2022

Via email:
hlui@ottawa.ca

Planning Division
City of Ottawa
110 Laurier Avenue West
Ottawa, Ontario

Re: OTT-21023795-A0 **Municipal Information Search Request**
4380 Trail Road, Ottawa, Ontario

To whom it may concern,

Our firm has been retained to conduct a Phase I Environmental Site Assessment for 4380 Trail Road, Ottawa, Ontario. We require information pertaining to the property.

We request that the City of Ottawa search their files and provide any information pertaining to the environmental condition of these properties and surrounding areas, including any past environmental reports, orders, certificates or approvals.

Please find attached the consent letter from the property owner to release this information for the property in question. A request for information form has been completed to initiate a search on the property.

If you should have any questions, please do not hesitate to contact me.

Yours truly,

EXP Services Inc.
Kathy Radisch
Administrative Assistant
Earth & Environment

Attachments: Disclaimer
RFI Form
Consent from Owner

May 11, 2022 Via Mail

FOI Manager
Freedom of Information & Protection of Privacy Office
Ministry of the Environment, Conservation and Parks
12th Floor, 40 St. Clair Avenue West
Toronto, Ontario M4V 1M2

Re: OTT-21023795-A0 **File Review Request**
4380 Trail Road, Ottawa, Ontario

Dear Sir or Madam:

I am sending a Freedom of Information Request to you for 4380 Trail Road, Ottawa, Ontario. We are conducting an environmental site assessment and require any environmental concerns.

If possible, we would appreciate receiving the documentation by email (kathy.radisch@exp.com) and by mail. If you have any questions, or require any further information, please do not hesitate to contact the undersigned at 613-688-1891, ext. 63296.

Yours truly,
EXP Services Inc.

Kathy Radisch
Administrative Assistant
Earth & Environment

Enclosures: FOI Form
Credit Card Payment Form ($35)

100 - 2650 Queensview Drive, Ottawa, Ontario K2B 8H6
T: +1.613.688.1899 • F: +1.613.225.7337 • www.exp.com

Appendix E: EcoLog ERIS Report

DATABASE REPORT

Project Property:	*Phase I ESA* *4380 Trail Road* *Richmond ON K0A 2Z0*
Project No:	*OTT-21023795-A0_1200_C.Kimmerly*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22050200589*
Requested by:	*exp Services Inc.*
Date Completed:	*May 5, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*Phase I ESA* *4380 Trail Road Richmond ON K0A 2Z0*
Project No:	*OTT-21023795-A0_1200_C.Kimmerly*

Order Information:

Order No:	*22050200589*
Date Requested:	*May 2, 2022*
Requested by:	*exp Services Inc.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	1	1
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	1	0	1
ECA	Environmental Compliance Approval	Y	0	22	22
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	18	18
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	16	16
	Total:		1	58	59

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EBR	Drain-All Ltd.	4380 Trail Road Ottawa, ON Canada ON	W/0.0	-0.69	22

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		lot 8 con 4 ON **Well ID:** 1526000	ESE/12.8	-0.66	22
3	WWIS		lot 8 con 4 ON **Well ID:** 1526196	ESE/13.7	-0.66	23
3	WWIS		lot 8 con 4 ON **Well ID:** 1527679	ESE/13.7	-0.66	27
3	WWIS		lot 8 con 4 ON **Well ID:** 1527680	ESE/13.7	-0.66	30
4	ECA	Kanata Research Park Corporation	Part of Lots 8, 9 and 10, Concession 4 Ottawa ON K2K 2X3	ESE/28.3	-0.66	34
5	WWIS		lot 8 con 4 ON **Well ID:** 1506079	W/31.0	4.42	34
6	BORE		ON	W/31.1	4.42	37
7	WWIS		lot 9 con 4 ON **Well ID:** 7176828	WNW/112.9	4.39	38
8	WWIS		4420 TRAIL RD OTTAWA ON **Well ID:** 7241834	WNW/169.6	4.45	39
9	WWIS		ON **Well ID:** 7257601	WNW/198.2	5.47	41
10	WWIS		4420 TRAIL ROAD OTTAWA ON **Well ID:** 7257602	WNW/198.4	5.47	42
11	WWIS		4420 TRAIL RD. lot 8 con 4 NEPEAN ON	WNW/200.2	4.42	44

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1536331			
11	WWIS		ON ***Well ID:*** 7044290	WNW/200.2	4.42	48
11	SPL		4420 Trailroad Ottawa ON	WNW/200.2	4.42	50
11	WWIS		4420 TRAIL ROAD lot 8 con 4 NEPEAN ON ***Well ID:*** 7199492	WNW/200.2	4.42	51
12	WWIS		6977 THIRD LINE ROAD, SOUTH lot 27 con 2 NORTH GOWER ON ***Well ID:*** 1536336	WNW/202.6	4.39	52
13	WWIS		4420 TRAIL RD lot 8 con 4 NEPEAN ON ***Well ID:*** 1536460	WNW/206.8	4.39	59
13	WWIS		4420 TRAIL ROAD lot 9 con 4 NEPEAN ON ***Well ID:*** 7176399	WNW/206.8	4.39	64
14	WDS	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K0A 2Z0	NNW/216.0	-5.27	66
14	WDS	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON	NNW/216.0	-5.27	66
14	WDS	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3G7	NNW/216.0	-5.27	67
14	WDS	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	NNW/216.0	-5.27	68
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3G7	NNW/216.0	-5.27	68
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	69
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	70

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	71
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	71
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	72
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	73
14	WDS	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	NNW/216.0	-5.27	73
14	WDS	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	74
14	ECA	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	75
14	ECA	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	75
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	75
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	76
14	ECA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	76
14	ECA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	76
14	ECA	City of Ottawa	Part Lots 8, 9 & 10, Concession 4, Moodie Drive Ottawa ON K0A 2Z0	NNW/216.0	-5.27	77

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	ECA	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3G8	NNW/216.0	-5.27	77
14	ECA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	NNW/216.0	-5.27	77
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	78
14	ECA	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2P 1J1	NNW/216.0	-5.27	78
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	78
14	ECA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	NNW/216.0	-5.27	78
14	ECA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	79
14	ECA	Tenth Line Development Inc.	Part of Lot 13, Concession Ottawa ON K2P 0Y6	NNW/216.0	-5.27	79
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON	NNW/216.0	-5.27	79
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	80
14	ECA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	80
14	ECA	City of Ottawa	Rideau Front Ottawa ON K1P 1J1	NNW/216.0	-5.27	80
14	ECA	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K1P 1J1	NNW/216.0	-5.27	81

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	ECA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	81
14	WDS	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3G7	NNW/216.0	-5.27	81
14	WDS	Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	82
14	WDS	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	NNW/216.0	-5.27	83
14	WDS	City of Ottawa	Ottawa ON K0A 2Z0	NNW/216.0	-5.27	83
14	WDS	City of Ottawa	Ottawa ON K0A 2Z0	NNW/216.0	-5.27	84
15	WWIS		lot 8 con 4 ON ***Well ID:*** 1517287	ENE/242.9	4.12	85

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 1 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	31.1	6

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Mar 31, 2022 has found that there are 1 EBR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Drain-All Ltd.	4380 Trail Road Ottawa, ON Canada ON	0.0	1

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Mar 31, 2022 has found that there are 22 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Kanata Research Park Corporation	Part of Lots 8, 9 and 10, Concession 4 Ottawa ON K2K 2X3	28.3	4
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14

Site	Address	Distance (m)	Map Key
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	216.0	14
Tenth Line Development Inc.	Part of Lot 13, Concession Ottawa ON K2P 0Y6	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
City of Ottawa	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2P 1J1	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3G8	216.0	14

Site	Address	Distance (m)	Map Key
City of Ottawa	Part Lots 8, 9 & 10, Concession 4, Moodie Drive Ottawa ON K0A 2Z0	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
City of Ottawa	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K1P 1J1	216.0	14
City of Ottawa	Rideau Front Ottawa ON K1P 1J1	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3E7	216.0	14

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	4420 Trailroad Ottawa ON	200.2	11

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated Oct 2011- Mar 31, 2022 has found that there are 18 WDS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3G7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3G7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON	216.0	14
City of Ottawa	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K0A 2Z0	216.0	14

Site	Address	Distance (m)	Map Key
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
City of Ottawa	Ottawa ON K0A 2Z0	216.0	14
City of Ottawa	Ottawa ON K0A 2Z0	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Rideau Front Ottawa ON K2K 3E7	216.0	14
Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3G7	216.0	14

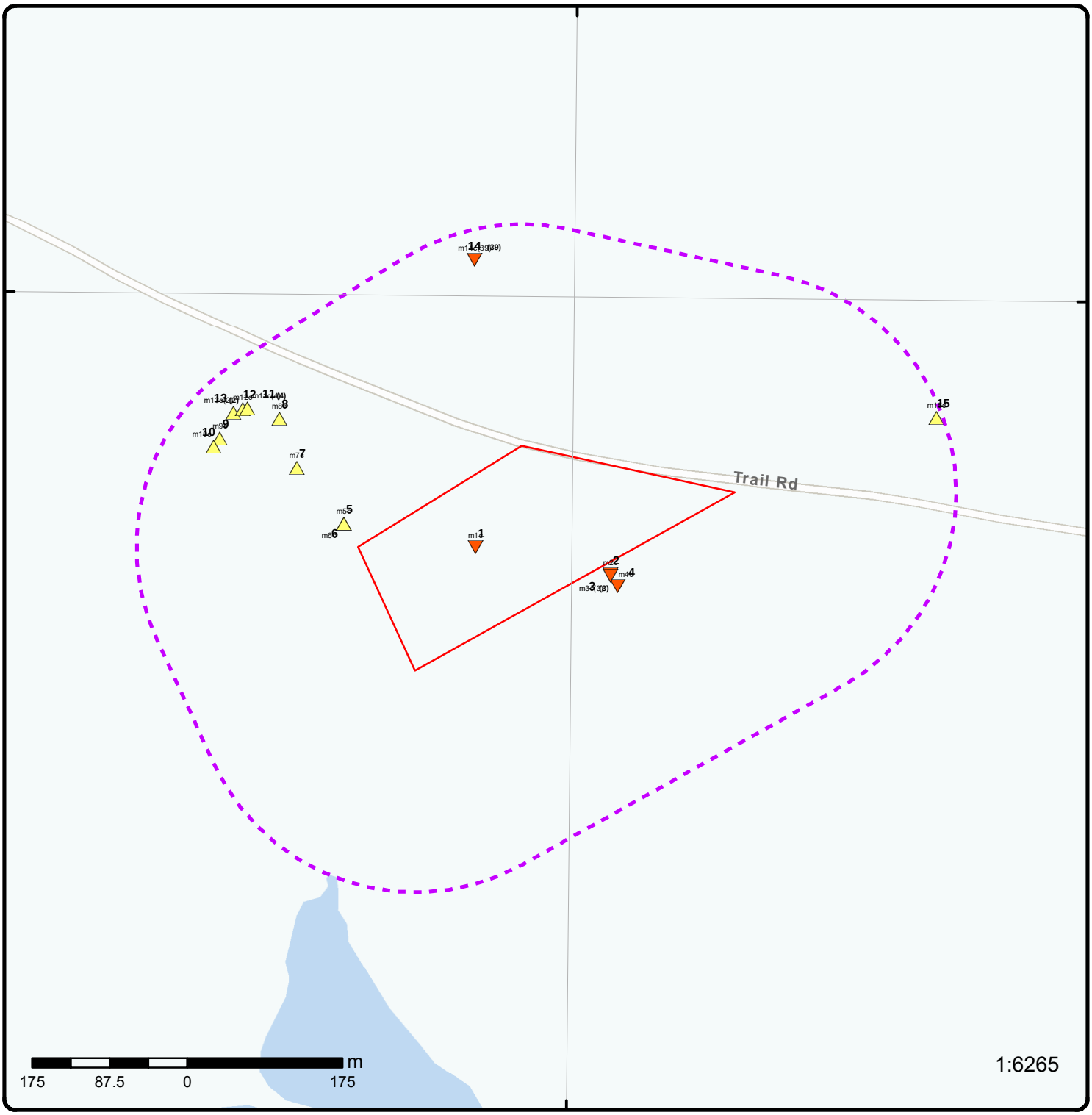
WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 16 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 8 con 4 ON ***Well ID:*** 1526000	12.8	2
	lot 8 con 4 ON ***Well ID:*** 1527680	13.7	3
	lot 8 con 4 ON ***Well ID:*** 1527679	13.7	3

Site	Address	Distance (m)	Map Key
	lot 8 con 4 ON ***Well ID:*** 1526196	13.7	3
	lot 8 con 4 ON ***Well ID:*** 1506079	31.0	5
	lot 9 con 4 ON ***Well ID:*** 7176828	112.9	7
	4420 TRAIL RD OTTAWA ON ***Well ID:*** 7241834	169.6	8
	ON ***Well ID:*** 7257601	198.2	9
	4420 TRAIL ROAD OTTAWA ON ***Well ID:*** 7257602	198.4	10
	4420 TRAIL RD. lot 8 con 4 NEPEAN ON ***Well ID:*** 1536331	200.2	11
	ON ***Well ID:*** 7044290	200.2	11
	4420 TRAIL ROAD lot 8 con 4 NEPEAN ON ***Well ID:*** 7199492	200.2	11
	6977 THIRD LINE ROAD, SOUTH lot 27 con 2 NORTH GOWER ON ***Well ID:*** 1536336	202.6	12
	4420 TRAIL RD lot 8 con 4 NEPEAN ON ***Well ID:*** 1536460	206.8	13
	4420 TRAIL ROAD lot 9 con 4 NEPEAN ON	206.8	13

Site	Address	Distance (m)	Map Key
	Well ID: 7176399		
	lot 8 con 4 ON	242.9	15
	Well ID: 1517287		



Map: 0.25 Kilometer Radius

Order Number: 22050200589

Address: 4380 Trail Road, Richmond, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

75°46'30"W

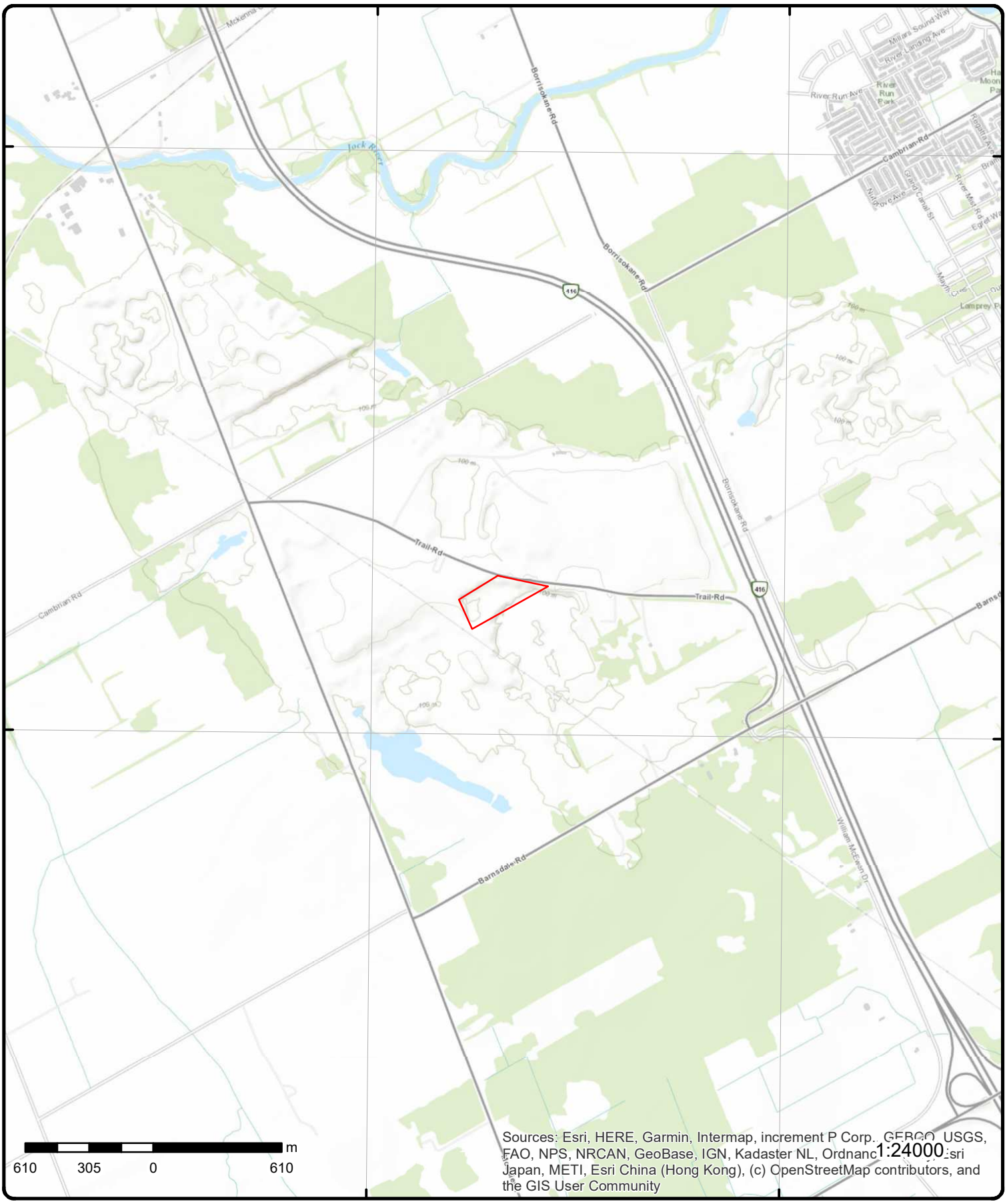
Aerial

Year: 2021

Order Number: 22050200589

Address: 4380 Trail Road, Richmond, ON

Source: ESRI World Imagery



Topographic Map

Address: 4380 Trail Road, ON

Source: ESRI World Topographic Map

Order Number: 22050200589

ERIS

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	W/0.0	104.8 / -0.69	Drain-All Ltd. 4380 Trail Road Ottawa, ON Canada ON	EBR

EBR Registry No: 019-3062
Ministry Ref No: 9975-BU5NF9
Notice Type: Instrument
Notice Stage: Proposal
Notice Date:
Proposal Date: February 1, 2021
Year: 2021
Decision Posted:
Exception Posted:
Section: Part II.1 (20.3 or 20.5)
Act 1: Environmental Protection Act, R.S.O. 1990
Act 2: Environmental Protection Act
Site Location Map: 45.23078,-75.76805

Instrument Type: Environmental Compliance Approval (waste)
Off Instrument Name: Environmental Compliance Approval (waste) (EPA s.27)
Posted By: Ministry of the Environment, Conservation and Parks
Company Name:
Site Address: 4380 Trail Road Ottawa, ON Canada
Location Other:
Proponent Name: Drain-All Ltd.
Proponent Address: Drain-All Ltd. 3385 Hawthorne Road, Napanee Ottawa, ON K1G 4G2 Canada
Comment Period: February 1, 2021 - March 18, 2021 (45 days) Open
URL: https://ero.ontario.ca/notice/019-3062

Site Location Details:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	ESE/12.8	104.8 / -0.66	lot 8 con 4 ON	WWIS

Well ID: 1526000
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: 102764
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Data Entry Status:
Data Src: 1
Date Received: 1/13/1992
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 008
Concession: 04
Concession Name: RF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1526000.pdf

Additional Detail(s) (Map)

Well Completed Date:	1991/11/13
Year Completed:	1991
Depth (m):	
Latitude:	45.2305180497646
Longitude:	-75.7661065835986
Path:	152\1526000.pdf

Bore Hole Information

Bore Hole ID:	10047735	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439861.70
Code OB Desc:		**North83:**	5008844.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	13-Nov-1991 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933111484
Layer:	1
Plug From:	0.0
Plug To:	115.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961526000
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	10596305
Casing No:	1
Comment:	
Alt Name:	

3	1 of 3	ESE/13.7	104.8 / -0.66	lot 8 con 4 ON	WWIS

Well ID:	1526196	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/2/1992
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:	113371	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA

Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	008
Well Depth:		**Concession:**	04
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/152\1526196.pdf

Additional Detail(s) (Map)

Well Completed Date:	1992/04/27
Year Completed:	1992
Depth (m):	23.1648
Latitude:	45.2305090490084
Longitude:	-75.7661064626734
Path:	152\1526196.pdf

Bore Hole Information

Bore Hole ID:	10047926	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439861.70
Code OB Desc:		**North83:**	5008843.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	27-Apr-1992 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931063509
Layer:	3
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	65.0
Formation End Depth:	76.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931063507
Layer:	1

Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931063508
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20.0
Formation End Depth:	65.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961526196
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10596496
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930083899
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	76.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930083898
Layer:	1
Material:	1
Open Hole or Material:	STEEL

Depth From:
Depth To: 75.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526196
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 40.0
Pumping Rate: 50.0
Flowing Rate:
Recommended Pump Rate: 5.0
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: No

Draw Down & Recovery

Pump Test Detail ID: 934106783
Test Type: Draw Down
Test Duration: 15
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390417
Test Type: Draw Down
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908556
Test Type: Draw Down
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650938
Test Type: Draw Down
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933485426
Layer: 1

Kind Code: 1
Kind: FRESH
Water Found Depth: 76.0
Water Found Depth UOM: ft

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3 **2 of 3** **ESE/13.7** **104.8 / -0.66** **lot 8 con 4 ON** **WWIS**

Well ID: 1527679
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 130419
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 2/28/1994
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6617
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 008
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527679.pdf

Additional Detail(s) (Map)

Well Completed Date: 1994/02/08
Year Completed: 1994
Depth (m): 13.716
Latitude: 45.2305090490084
Longitude: -75.7661064626734
Path: 152\1527679.pdf

Bore Hole Information

Bore Hole ID: 10049305
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08-Feb-1994 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 439861.70
North83: 5008843.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Overburden and Bedrock Materials Interval

Formation ID: 931067384

Layer: 3
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 81
Mat2 Desc: SANDY
Mat3: 84
Mat3 Desc: SILTY
Formation Top Depth: 26.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931067385
Layer: 4
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 06
Mat2 Desc: SILT
Mat3: 90
Mat3 Desc: VERY
Formation Top Depth: 37.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931067382
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 01
Mat2 Desc: FILL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931067383
Layer: 2
Color:
General Color:
Mat1: 10
Most Common Material: COARSE SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 26.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931067386
Layer:	5
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	84
Mat3 Desc:	SILTY
Formation Top Depth:	42.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961527679
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	10597875
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930086111
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	40.0
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933326452
Layer:	1
Slot:	200
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.0

Results of Well Yield Testing

Pump Test ID:	991527679
Pump Set At:	

Static Level:	5.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933487192
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	4.0
Water Found Depth UOM:	ft

---

3 | ***3 of 3*** | ***ESE/13.7*** | ***104.8 / -0.66*** | ***lot 8 con 4 ON*** | ***WWIS***

Well ID:	1527680	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Not Used	**Date Received:**	2/28/1994
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	6617
Casing Material:		**Form Version:**	1
Audit No:	130418	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	008
Well Depth:		**Concession:**	04
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/152\1527680.pdf

Additional Detail(s) (Map)

Well Completed Date:	1994/02/07
Year Completed:	1994
Depth (m):	13.716
Latitude:	45.2305090490084
Longitude:	-75.7661064626734
Path:	152\1527680.pdf

Bore Hole Information

Bore Hole ID:	10049306	**Elevation:**	

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439861.70
Code OB Desc:		**North83:**	5008843.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	07-Feb-1994 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931067387
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	09
Mat2 Desc:	MEDIUM SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067390
Layer:	4
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	22.0
Formation End Depth:	36.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931067389
Layer:	3
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	81
Mat2 Desc:	SANDY
Mat3:	06
Mat3 Desc:	SILT
Formation Top Depth:	18.0

Formation End Depth: 22.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931067388
Layer: 2
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931067391
Layer: 5
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 06
Mat3 Desc: SILT
Formation Top Depth: 36.0
Formation End Depth: 45.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933112643
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933112644
Layer: 2
Plug From: 26.0
Plug To: 36.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933112645
Layer: 3
Plug From: 36.0
Plug To: 45.0

Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961527680
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10597876
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086112
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326453
Layer: 1
Slot: 200
Screen Top Depth: 44.0
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 991527680
Pump Set At:
Static Level: 4.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water ID: 933487193
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 2.0
Water Found Depth UOM: ft

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4 | **1 of 1** | **ESE/28.3** | **104.8 / -0.66** | **Kanata Research Park Corporation**
Part of Lots 8, 9 and 10, Concession 4
Ottawa ON K2K 2X3 | **ECA**

Approval No: 0814-5RYRA3
Approval Date: 2003-10-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Kanata Research Park Corporation
Address: Part of Lots 8, 9 and 10, Concession 4
Full Address:
Full PDF Link:
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.766
Latitude: 45.2304
Geometry X:
Geometry Y:

---

5 | **1 of 1** | **W/31.0** | **109.9 / 4.42** | **lot 8 con 4**
ON | **WWIS**

Well ID: 1506079
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/10/1961
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3503
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 008
Concession: 04
Concession Name: RF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1506079.pdf

Additional Detail(s) (Map)

Well Completed Date: 1961/06/14
Year Completed: 1961
Depth (m): 35.052
Latitude: 45.2310143092352
Longitude: -75.7699477487182
Path: 150\1506079.pdf

Bore Hole Information

Bore Hole ID:	10028122	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439560.70
Code OB Desc:		**North83:**	5008902.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	14-Jun-1961 00:00:00	**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:	931003739
Layer:	1
Color:	7
General Color:	RED
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931003740
Layer:	2
Color:	
General Color:	
Mat1:	07
Most Common Material:	QUICKSAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	100.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931003741
Layer:	3
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	

Mat3 Desc:
Formation Top Depth: 100.0
Formation End Depth: 115.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961506079
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10576692
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930048991
Layer: 2
Material:
Open Hole or Material:
Depth From:
Depth To: 115.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930048990
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 110.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991506079
Pump Set At:
Static Level: 35.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 80.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 0
Pumping Duration MIN: 20
Flowing: No

Water Details

Water ID:	933460154
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	40.0
Water Found Depth UOM:	ft

6 ***1 of 1*** ***W/31.1*** ***109.9 / 4.42*** ***ON*** ***BORE***

Borehole ID:	610428	***Inclin FLG:***	No
OGF ID:	215511943	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	JUN-1961	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.231015
Total Depth m:	35.1	***Longitude DD:***	-75.769948
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	439561
Drill Method:		***Northing:***	5008902
Orig Ground Elev m:	111	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	112		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218385556	***Mat Consistency:***	
Top Depth:	30.5	***Material Moisture:***	
Bottom Depth:	35.1	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:	Gravel	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND,GRAVEL. 00040IED. SEISMIC VELOCITY = 5700. BEDROCK. SEISMIC VELOCITY = 10500. SIL **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218385555	***Mat Consistency:***	
Top Depth:	3	***Material Moisture:***	
Bottom Depth:	30.5	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sand	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SAND.		

Geology Stratum ID:	218385554	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	3	***Material Texture:***	
Material Color:	White	***Non Geo Mat Type:***	

Material 1:	Sand	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SAND. WHITE.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02936 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

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7 **1 of 1** **WNW/112.9** **109.8 / 4.39** **lot 9 con 4 ON** **WWIS**

Well ID:	7176828	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	2/16/2012
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	1844
Casing Material:		**Form Version:**	5
Audit No:	M08727	**Owner:**	
Tag:	A122823	**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	RF
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/717\7176828.pdf

Additional Detail(s) (Map)

Well Completed Date:	2011/10/13
Year Completed:	2011
Depth (m):	
Latitude:	45.2315768285544
Longitude:	-75.7706267065288
Path:	717\7176828.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole Information

Bore Hole ID:	1003694792	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	439508.00
Code OB Desc:		***North83:***	5008965.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	13-Oct-2011 00:00:00	***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:			

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8 ***1 of 1*** ***WNW/169.6*** ***109.9 / 4.45*** ***4420 TRAIL RD OTTAWA ON*** ***WWIS***

Well ID:	7241834	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring and Test Hole	***Date Received:***	5/28/2015
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7241
Casing Material:		***Form Version:***	7
Audit No:	Z208695	***Owner:***	
Tag:	A173902	***Street Name:***	4420 TRAIL RD
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
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):

Additional Detail(s) (Map)

Well Completed Date:	2015/05/04
Year Completed:	2015
Depth (m):	4.88
Latitude:	45.2320701501404
Longitude:	-75.7708881623767
Path:	

Bore Hole Information

Bore Hole ID:	1005381494	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	439488.00
Code OB Desc:		***North83:***	5009020.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04-May-2015 00:00:00	***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: 1005624055
Layer: 1
Color: 6
General Color: BROWN
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 79
Mat2 Desc: PACKED
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 0.0
Formation End Depth: 4.880000114440918
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005624063
Layer: 1
Plug From: 0.0
Plug To: 0.3100000023841858
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005624064
Layer: 2
Plug From: 0.3100000023841858
Plug To: 1.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005624065
Layer: 3
Plug From: 1.5
Plug To: 4.880000114440918
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1005624062
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1005624054
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005624058
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.8300000429153442
Casing Diameter: 3.450000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1005624059
Layer: 1
Slot: 10
Screen Top Depth: 1.8300000429153442
Screen End Depth: 4.880000114440918
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.210000038146973

Water Details

Water ID: 1005624057
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1005624056
Diameter: 5.710000038146973
Depth From: 0.0
Depth To: 4.880000114440918
Hole Depth UOM: m
Hole Diameter UOM: cm

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9 ***1 of 1*** ***WNW/198.2*** ***110.9 / 5.47*** ***ON*** ***WWIS***

Well ID:	7257601	***Data Entry Status:***	Yes
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	2/10/2016
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:		***Abandonment Rec:***	
Water Type:		***Contractor:***	1844
Casing Material:		***Form Version:***	8
Audit No:	C26608	***Owner:***	
Tag:	A173902	***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP

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):

Additional Detail(s) (Map)

Well Completed Date:	2015/12/18
Year Completed:	2015
Depth (m):	
Latitude:	45.2318663697949
Longitude:	-75.7717389462059
Path:	

Bore Hole Information

Bore Hole ID:	1005883595	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439421.00
Code OB Desc:		**North83:**	5008998.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	18-Dec-2015 00:00:00	**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:			

10 **1 of 1** **WNW/198.4** **110.9 / 5.47** **4420 TRAIL ROAD OTTAWA ON** **WWIS**

Well ID:	7257602	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	2/10/2016
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	1844
Casing Material:		**Form Version:**	7
Audit No:	Z227904	**Owner:**	
Tag:	A142564	**Street Name:**	4420 TRAIL ROAD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
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):

Additional Detail(s) (Map)

Well Completed Date: 2015/12/18
Year Completed: 2015
Depth (m):
Latitude: 45.2317847605413
Longitude: -75.7718270172459
Path:

Bore Hole Information

Bore Hole ID: 1005883598
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 18-Dec-2015 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 439414.00
North83: 5008989.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Method of Construction & Well Use

Method Construction ID: 1005975634
Method Construction Code:
Method Construction:
Other Method Construction: HSA

Pipe Information

Pipe ID: 1005975625
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005975631
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1005975632
Layer:
Slot:

Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1005975630
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1005975628
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1005975629
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1005975627
Diameter: 20.299999237060547
Depth From: 0.0
Depth To: 8.0
Hole Depth UOM: m
Hole Diameter UOM: cm

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11 | **1 of 4** | **WNW/200.2** | **109.9 / 4.42** | **4420 TRAIL RD. lot 8 con 4 NEPEAN ON** | **WWIS**

Well ID: 1536331
Construction Date:
Primary Water Use: Municipal
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z39277
Tag: A035404
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:

Data Entry Status:
Data Src:
Date Received: 5/9/2006
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 3
Owner:
Street Name: 4420 TRAIL RD.
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 008
Concession: 04
Concession Name: RF
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/153\1536331.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/04/07
Year Completed:	2006
Depth (m):	44.8
Latitude:	45.2321750627586
Longitude:	-75.7713482011276
Path:	153\1536331.pdf

Bore Hole Information

Bore Hole ID:	11550397	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439452.00
Code OB Desc:		**North83:**	5009032.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	07-Apr-2006 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 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:	933053503
Layer:	3
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	31.079999923706055
Formation End Depth:	34.130001068115234
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933053504
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	17
Mat2 Desc:	SHALE

Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	34.130001068115234
Formation End Depth:	35.349998474121094
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933053502
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	20.719999313354492
Formation End Depth:	31.079999923706055
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933053505
Layer:	5
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	35.349998474121094
Formation End Depth:	44.79999923706055
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933053501
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	79
Mat3 Desc:	PACKED
Formation Top Depth:	0.0
Formation End Depth:	20.719999313354492
Formation End Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	961536331
Method Construction Code:	4

Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11560004
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930878943
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.6000000238418579
Depth To: 37.790000915527344
Casing Diameter: 15.859999656677246
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930878944
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 37.790000915527344
Depth To: 44.79999923706055
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Water Details

Water ID: 934075046
Layer: 1
Kind Code:
Kind:
Water Found Depth: 39.310001373291016
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11681093
Diameter: 15.229999542236328
Depth From: 37.790000915527344
Depth To: 44.79999923706055
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681092
Diameter: 22.75
Depth From: 0.0
Depth To: 37.790000915527344
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	2 of 4	WNW/200.2	109.9 / 4.42	ON	WWIS

Well ID:	7044290	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	5/31/2007
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	6964
Casing Material:		**Form Version:**	3
Audit No:	Z34847	**Owner:**	
Tag:	A035404	**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	15000
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/704\7044290.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/05/20
Year Completed:	2007
Depth (m):	
Latitude:	45.2321750627586
Longitude:	-75.7713482011276
Path:	704\7044290.pdf

Bore Hole Information

Bore Hole ID:	11766724	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439452.00
Code OB Desc:		**North83:**	5009032.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	20-May-2007 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933319954
Layer:	1
Plug From:	0.0
Plug To:	1.5
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 933319955
Layer: 2
Plug From: 1.5
Plug To: 33.83000183105469
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933319956
Layer: 3
Plug From: 33.83000183105469
Plug To: 36.880001068115234
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933319958
Layer: 5
Plug From: 40.84000015258789
Plug To: 43.88999938964844
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933319957
Layer: 4
Plug From: 36.880001068115234
Plug To: 40.84000015258789
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 967044290
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 11774414
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930900057
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 37.790000915527344
Casing Diameter: 5.199999809265137

Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933424692
Layer: 1
Slot: 10
Screen Top Depth: 37.790000915527344
Screen End Depth: 40.84000015258789
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.0

Hole Diameter

Hole ID: 11853301
Diameter: 22.75
Depth From: 0.0
Depth To: 36.880001068115234
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11853302
Diameter: 15.229999542236328
Depth From: 36.880001068115234
Depth To: 43.88999938964844
Hole Depth UOM: m
Hole Diameter UOM: cm

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11 | ***3 of 4*** | ***WNW/200.2*** | ***109.9 / 4.42*** | ***4420 Trailroad Ottawa ON*** | ***SPL***

Ref No:	5875-8J6HK2	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/25/2011	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	4420 Trailroad
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/25/2011	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:		***Source Type:***	
Site Name:	Plasco Trailroad<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Plasco Trailroad: overflowing storm drain to munic.drain		
Contaminant Qty:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	4 of 4	WNW/200.2	109.9 / 4.42	4420 TRAIL ROAD lot 8 con 4 NEPEAN ON	WWIS

Well ID:	7199492	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	3/28/2013
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	7
Audit No:	Z139877	**Owner:**	
Tag:	A035404	**Street Name:**	4420 TRAIL ROAD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	008
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	RF
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/719\7199492.pdf

Additional Detail(s) (Map)

Well Completed Date:	2013/01/31
Year Completed:	2013
Depth (m):	
Latitude:	45.2321750627586
Longitude:	-75.7713482011276
Path:	719\7199492.pdf

Bore Hole Information

Bore Hole ID:	1004269075	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439452.00
Code OB Desc:		**North83:**	5009032.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	31-Jan-2013 00:00:00	**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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1004961153
Layer:	1
Plug From:	44.79999923706055
Plug To:	0.0
Plug Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Method of Construction & Well Use

Method Construction ID: 1004961152
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1004961146
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004961150
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004961151
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID: 1004961149
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004961148
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

12	*1 of 1*	*WNW/202.6*	*109.8 / 4.39*	*6977 THIRD LINE ROAD, SOUTH lot 27 con 2 NORTH GOWER ON*	*WWIS*

Well ID:	1536336	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	5/9/2006
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	3
Audit No:	Z39278	**Owner:**	
Tag:	A035405	**Street Name:**	6977 THIRD LINE ROAD, SOUTH
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	027
Well Depth:		**Concession:**	02
Overburden/Bedrock:		**Concession Name:**	RF
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/153\1536336.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/04/12
Year Completed:	2006
Depth (m):	38.09
Latitude:	45.2321656318283
Longitude:	-75.7714117708116
Path:	153\1536336.pdf

Bore Hole Information

Bore Hole ID:	11550402	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439447.00
Code OB Desc:		**North83:**	5009031.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	12-Apr-2006 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 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:	933053930
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	77
Mat3 Desc:	LOOSE

Formation Top Depth: 0.0
Formation End Depth: 3.6500000953674316
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933053931
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 3.6500000953674316
Formation End Depth: 14.020000457763672
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933053932
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 14.020000457763672
Formation End Depth: 38.09000015258789
Formation End Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536336
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11560009
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930879274
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 16.760000228881836
Depth To: 38.09000015258789
Casing Diameter:

Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930879273
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.44999998807907104
Depth To: 16.760000228881836
Casing Diameter: 15.859999656677246
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11569438
Pump Set At: 33.52000045776367
Static Level: 4.659999847412109
Final Level After Pumping: 13.199999809265137
Recommended Pump Depth: 22.850000381469727
Pumping Rate: 22.75
Flowing Rate:
Recommended Pump Rate: 22.75
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11617614
Test Type: Recovery
Test Duration: 1
Test Level: 10.979999542236328
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617618
Test Type: Recovery
Test Duration: 3
Test Level: 8.5
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617619
Test Type: Draw Down
Test Duration: 4
Test Level: 8.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617624

Test Type: Recovery
Test Duration: 10
Test Level: 5.800000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617634
Test Type: Recovery
Test Duration: 40
Test Level: 4.800000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617613
Test Type: Draw Down
Test Duration: 1
Test Level: 5.690000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617636
Test Type: Recovery
Test Duration: 50
Test Level: 4.71999979019165
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617620
Test Type: Recovery
Test Duration: 4
Test Level: 7.699999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617625
Test Type: Draw Down
Test Duration: 15
Test Level: 11.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617638
Test Type: Recovery
Test Duration: 60
Test Level: 4.690000057220459
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617616
Test Type: Recovery
Test Duration: 2
Test Level: 9.890000343322754
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617630
Test Type: Recovery
Test Duration: 25
Test Level: 4.909999847412109
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617615
Test Type: Draw Down
Test Duration: 2
Test Level: 6.199999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617621
Test Type: Draw Down
Test Duration: 5
Test Level: 8.699999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617626
Test Type: Recovery
Test Duration: 15
Test Level: 5.619999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617632
Test Type: Recovery
Test Duration: 30
Test Level: 4.769999980926514
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617633
Test Type: Draw Down
Test Duration: 40
Test Level: 12.890000343322754
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617635
Test Type: Draw Down
Test Duration: 50
Test Level: 13.010000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617617
Test Type: Draw Down
Test Duration: 3
Test Level: 7.78000020980835
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617623
Test Type: Draw Down
Test Duration: 10
Test Level: 10.279999732971191
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617627
Test Type: Draw Down
Test Duration: 20
Test Level: 11.779999732971191
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617629
Test Type: Draw Down
Test Duration: 25
Test Level: 12.170000076293945
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617631
Test Type: Draw Down
Test Duration: 30
Test Level: 12.579999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617637
Test Type: Draw Down
Test Duration: 60
Test Level: 13.050000190734863
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617622
Test Type: Recovery
Test Duration: 5
Test Level: 7.130000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11617628
Test Type: Recovery
Test Duration: 20
Test Level: 5.0

Test Level UOM: m

Water Details

Water ID: 934075050
Layer: 1
Kind Code:
Kind:
Water Found Depth: 35.650001525878906
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11681098
Diameter: 15.229999542236328
Depth From: 16.760000228881836
Depth To: 38.09000015258789
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681099
Diameter: 22.75
Depth From: 0.0
Depth To: 16.760000228881836
Hole Depth UOM: m
Hole Diameter UOM: cm

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13 | ***1 of 2*** | ***WNW/206.8*** | ***109.8 / 4.39*** | ***4420 TRAIL RD lot 8 con 4 NEPEAN ON*** | ***WWIS***

Well ID: 1536460
Construction Date:
Primary Water Use: Commerical
Sec. Water Use: Industrial
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z46996
Tag: A035456
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/11/2006
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1558
Form Version: 3
Owner:
Street Name: 4420 TRAIL RD
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 008
Concession: 04
Concession Name: RF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1536460.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/06/27
Year Completed: 2006
Depth (m): 114.29
Latitude: 45.2321286823215
Longitude: -75.7715514048162

Path: 153\1536460.pdf

Bore Hole Information

Bore Hole ID:	11550526	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439436.00
Code OB Desc:		**North83:**	5009027.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	27-Jun-2006 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 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:	933057411
Layer:	3
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	31.079999923706055
Formation End Depth:	34.130001068115234
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933057410
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	79
Mat2 Desc:	PACKED
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20.719999313354492
Formation End Depth:	31.079999923706055
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933057409
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28

Most Common Material: SAND
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 20.719999313354492
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933057412
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 17
Mat2 Desc: SHALE
Mat3: 71
Mat3 Desc: FRACTURED
Formation Top Depth: 34.130001068115234
Formation End Depth: 35.349998474121094
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933057413
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 74
Mat2 Desc: LAYERED
Mat3: 75
Mat3 Desc: LIGHT-COLOURED
Formation Top Depth: 35.349998474121094
Formation End Depth: 96.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933057414
Layer: 6
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 96.0
Formation End Depth: 114.29000091552734
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933294499
Layer: 1
Plug From: 40.06999969482422
Plug To: 0.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536460
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11560133
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930879962
Layer: 4
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 69.79000091552734
Depth To: 114.29000091552734
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930879961
Layer: 3
Material: 1
Open Hole or Material: STEEL
Depth From: -0.7599999904632568
Depth To: 69.79000091552734
Casing Diameter: 15.859999656677246
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930879960
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -0.30000001192092896
Depth To: 40.06999969482422
Casing Diameter: 21.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930879959

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.15000000596046448
Depth To: 4.409999847412109
Casing Diameter: 25.100000381469727
Casing Diameter UOM: cm
Casing Depth UOM: m

Water Details

Water ID: 934077249
Layer: 2
Kind Code:
Kind:
Water Found Depth: 71.62000274658203
Water Found Depth UOM: m

Water Details

Water ID: 934077250
Layer: 3
Kind Code:
Kind:
Water Found Depth: 113.06999969482422
Water Found Depth UOM: m

Water Details

Water ID: 934077248
Layer: 1
Kind Code:
Kind:
Water Found Depth: 70.0999984741211
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11681235
Diameter: 21.899999618530273
Depth From: 40.06999969482422
Depth To: 69.79000091552734
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681234
Diameter: 27.309999465942383
Depth From: 0.0
Depth To: 40.06999969482422
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 11681236
Diameter: 15.229999542236328
Depth From: 69.79000091552734
Depth To: 114.29000091552734
Hole Depth UOM: m

Hole Diameter UOM: cm

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13 **2 of 2** **WNW/206.8** **109.8 / 4.39** **4420 TRAIL ROAD lot 9 con 4 NEPEAN ON** **WWIS**

Well ID:	7176399	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	2/9/2012
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Abandoned-Quality	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	7
Audit No:	Z135411	**Owner:**	
Tag:	A035458	**Street Name:**	4420 TRAIL ROAD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	RF
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/717\7176399.pdf

Additional Detail(s) (Map)

Well Completed Date:	2011/10/12
Year Completed:	2011
Depth (m):	
Latitude:	45.2321286823215
Longitude:	-75.7715514048162
Path:	717\7176399.pdf

Bore Hole Information

Bore Hole ID:	1003690755	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	439436.00
Code OB Desc:		**North83:**	5009027.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12-Oct-2011 00:00:00	**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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1004060189
Layer:	1
Plug From:	114.29000091552734
Plug To:	0.0

Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004060188
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1004060182
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004060186
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004060187
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1004060185
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004060184
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa Part of Lot 9, Concession 4, Rideau Front Ottawa ON K0A 2Z0	WDS

Approval No: A461301
Mob Unit Cert No:
EBR Registry No:
Status: Revoked and/or Replaced
Facility Type:
Record Type: ECA
Link Source: IDS
Project Type: WASTE DISPOSAL SITES
Application Status:
Issue Date: 2006-11-30
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Part of Lot 9, Concession 4, Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/1611-6UGR93-14.pdf
PDF Site Location:

Total Area (ha):
Landfill Cap (m³):
Transfer Area (ha):
Transfer Cap (m³):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m³):
Process Cap (m³/d):
Process Vol (m³):
Process Feed (m³):
Site Concession:
Site Region/County:
SWP Area Name: Rideau Valley
MOE District: Ottawa
District Office:
Latitude: 45.2337
Longitude: -75.7681
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	2 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON	WDS

Approval No: 3166-6TYMDZ
Mob Unit Cert No:
EBR Registry No:
Status: Revoked and/or Replaced
Facility Type:
Record Type: ECA
Link Source: IDS
Project Type: WASTE DISPOSAL SITES
Application Status:
Issue Date: 2006-12-01
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:

Total Area (ha):
Landfill Cap (m³):
Transfer Area (ha):
Transfer Cap (m³):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m³):
Process Cap (m³/d):
Process Vol (m³):
Process Feed (m³):
Site Concession:
Site Region/County:
SWP Area Name: Rideau Valley
MOE District: Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:	Part of Lot 9, Concession 4, Rideau Front		
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/9381-6RGHCB-14.pdf		
PDF Site Location:			

14	3 of 39	NNW/216.0	100.2 / -5.27	**Plasco Trail Road Inc.** **Part of Lot 9, Concession 4, Rideau Front** **Ottawa ON K2K 3G7**	WDS

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2007-09-05	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:	Part of Lot 9, Concession 4, Rideau Front		
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

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14 **4 of 39** **NNW/216.0** **100.2 / -5.27** **Plasco Trail Road Inc.**
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3G8 **WDS**

Approval No:	3166-6TYMDZ	***Total Area (ha):***	
Mob Unit Cert No:		***Landfill Cap (m³):***	
EBR Registry No:		***Transfer Area (ha):***	
Status:	Revoked and/or Replaced	***Transfer Cap (m³):***	
Facility Type:		***Transfer Cert No:***	
Record Type:	ECA	***Inciner. Area (ha):***	
Link Source:	IDS	***Inciner. Cap (t):***	
Project Type:	WASTE DISPOSAL SITES	***Process Area (m³):***	
Application Status:		***Process Cap (m³/d):***	
Issue Date:	2008-01-28	***Process Vol (m³):***	
Input Date:		***Process Feed (m³):***	
Date Received:		***Site Concession:***	
Est Closure Date:		***Site Region/County:***	
Mobile Capacity:		***SWP Area Name:***	Rideau Valley
Mobile Units:		***MOE District:***	Ottawa
Mobile Description:		***District Office:***	
Prop City:		***Latitude:***	45.2337
Prop Postal:		***Longitude:***	-75.7681
Prop Phone:		***Geometry X:***	
Serial Link:		***Geometry Y:***	

Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Part of Lot 9 Concession 4 Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/9600-79VMQF-14.pdf
PDF Site Location:

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14 **5 of 39** **NNW/216.0** **100.2 / -5.27** **Plasco Trail Road Inc.**
Rideau Front
Ottawa ON K2K 3G7 **WDS**

Approval No:	3166-6TYMDZ	***Total Area (ha):***	
Mob Unit Cert No:		***Landfill Cap (m³):***	
EBR Registry No:		***Transfer Area (ha):***	
Status:	Revoked and/or Replaced	***Transfer Cap (m³):***	
Facility Type:		***Transfer Cert No:***	
Record Type:	ECA	***Inciner. Area (ha):***	

Link Source:	IDS			**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES			**Process Area (m³):**	
Application Status:				**Process Cap (m³/d):**	
Issue Date:	2008-07-31			**Process Vol (m³):**	
Input Date:				**Process Feed (m³):**	
Date Received:				**Site Concession:**	
Est Closure Date:				**Site Region/County:**	
Mobile Capacity:				**SWP Area Name:**	Rideau Valley
Mobile Units:				**MOE District:**	Ottawa
Mobile Description:				**District Office:**	
Prop City:				**Latitude:**	45.2337
Prop Postal:				**Longitude:**	-75.7681
Prop Phone:				**Geometry X:**	
Serial Link:				**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES				
Proponent:					
Prop Address:					
Proponent County/District:					
Full Address:	Rideau Front				
Site Lot:					
Waste Class Code:					
Waste Class:					
Waste Type:					
Waste Type Other:					
Waste Description:					
Landfill Monitoring:					
Landfill Ctrl Type:					
Site Closing Description:					
Project Description:					
Municipalities Served:					
Approval Description:					
Other Approvals/Permits:					
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/8787-7FHGV5-14.pdf				
PDF Site Location:					

14	6 of 39	NNW/216.0	100.2 / -5.27	**Plasco Trail Road Inc.** **Rideau Front** **Ottawa ON K2K 3E7**	WDS

Approval No:	3166-6TYMDZ			**Total Area (ha):**	
Mob Unit Cert No:				**Landfill Cap (m³):**	
EBR Registry No:				**Transfer Area (ha):**	
Status:	Revoked and/or Replaced			**Transfer Cap (m³):**	
Facility Type:				**Transfer Cert No:**	
Record Type:	ECA			**Inciner. Area (ha):**	
Link Source:	IDS			**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES			**Process Area (m³):**	
Application Status:				**Process Cap (m³/d):**	
Issue Date:	2008-12-09			**Process Vol (m³):**	
Input Date:				**Process Feed (m³):**	
Date Received:				**Site Concession:**	
Est Closure Date:				**Site Region/County:**	
Mobile Capacity:				**SWP Area Name:**	Rideau Valley
Mobile Units:				**MOE District:**	Ottawa
Mobile Description:				**District Office:**	
Prop City:				**Latitude:**	45.2337
Prop Postal:				**Longitude:**	-75.7681
Prop Phone:				**Geometry X:**	
Serial Link:				**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES				
Proponent:					
Prop Address:					
Proponent County/District:					
Full Address:	Rideau Front				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/8201-7JKLEL-14.pdf
PDF Site Location:

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14 | **7 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Rideau Front
Ottawa ON K2K 3E7 | **WDS**

Approval No: 3166-6TYMDZ
Mob Unit Cert No:
EBR Registry No:
Status: Revoked and/or Replaced
Facility Type:
Record Type: ECA
Link Source: IDS
Project Type: WASTE DISPOSAL SITES
Application Status:
Issue Date: 2010-01-25
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/2501-7ZWSNM-14.pdf
PDF Site Location:

Total Area (ha):
Landfill Cap (m³):
Transfer Area (ha):
Transfer Cap (m³):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m³):
Process Cap (m³/d):
Process Vol (m³):
Process Feed (m³):
Site Concession:
Site Region/County:
SWP Area Name: Rideau Valley
MOE District: Ottawa
District Office:
Latitude: 45.2337
Longitude: -75.7681
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	8 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7	WDS

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2009-03-24	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:	Rideau Front		
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/8155-7PZRW6-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	9 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7	WDS

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2011-01-13	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

District Office:
Latitude: 45.2337
Longitude: -75.7681
Geometry X:
Geometry Y:

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14 | **10 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Rideau Front
Ottawa ON K2K 3E7 | **WDS**

Approval No: 3166-6TYMDZ
Mob Unit Cert No:
EBR Registry No:
Status: Revoked and/or Replaced
Facility Type:
Record Type: ECA
Link Source: IDS
Project Type: WASTE DISPOSAL SITES
Application Status:
Issue Date: 2011-10-24
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:

Total Area (ha):
Landfill Cap (m^3):
Transfer Area (ha):
Transfer Cap (m^3):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m^3):
Process Cap (m^3/d):
Process Vol (m^3):
Process Feed (m^3):
Site Concession:
Site Region/County:
SWP Area Name: Rideau Valley
MOE District: Ottawa
District Office:
Latitude: 45.2337
Longitude: -75.7681
Geometry X:
Geometry Y:

Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/9803-8F7NF5-14.pdf
PDF Site Location:

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14 **11 of 39** **NNW/216.0** **100.2 / -5.27** **Plasco Trail Road Inc.** **WDS**
Rideau Front
Ottawa ON K2K 3E7

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2011-01-13	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	

Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/0562-7VHRE3-14.pdf
PDF Site Location:

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14 **12 of 39** **NNW/216.0** **100.2 / -5.27** **Plasco Trail Road Inc.** **WDS**
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3G8

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	

Link Source:	IDS			**Incliner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES			**Process Area (m³):**	
Application Status:				**Process Cap (m³/d):**	
Issue Date:	2007-09-05			**Process Vol (m³):**	
Input Date:				**Process Feed (m³):**	
Date Received:				**Site Concession:**	
Est Closure Date:				**Site Region/County:**	
Mobile Capacity:				**SWP Area Name:**	Rideau Valley
Mobile Units:				**MOE District:**	Ottawa
Mobile Description:				**District Office:**	
Prop City:				**Latitude:**	45.2337
Prop Postal:				**Longitude:**	-75.7681
Prop Phone:				**Geometry X:**	
Serial Link:				**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES				
Proponent:					
Prop Address:					
Proponent County/District:					
Full Address:	Part of Lot 9 Concession 4 Rideau Front				
Site Lot:					
Waste Class Code:					
Waste Class:					
Waste Type:					
Waste Type Other:					
Waste Description:					
Landfill Monitoring:					
Landfill Ctrl Type:					
Site Closing Description:					
Project Description:					
Municipalities Served:					
Approval Description:					
Other Approvals/Permits:					
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/6747-74ML8A-14.pdf				
PDF Site Location:					

14	13 of 39	NNW/216.0	100.2 / -5.27	**Plasco Trail Road Inc.** **Part of Lot 9, Concession 4, Rideau Front** **Ottawa ON K2K 3E7**	WDS

Approval No:	3166-6TYMDZ			**Total Area (ha):**	
Mob Unit Cert No:				**Landfill Cap (m³):**	
EBR Registry No:				**Transfer Area (ha):**	
Status:	Revoked and/or Replaced			**Transfer Cap (m³):**	
Facility Type:				**Transfer Cert No:**	
Record Type:	ECA			**Incliner. Area (ha):**	
Link Source:	IDS			**Incliner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES			**Process Area (m³):**	
Application Status:				**Process Cap (m³/d):**	
Issue Date:	2011-01-13			**Process Vol (m³):**	
Input Date:				**Process Feed (m³):**	
Date Received:				**Site Concession:**	
Est Closure Date:				**Site Region/County:**	
Mobile Capacity:				**SWP Area Name:**	Rideau Valley
Mobile Units:				**MOE District:**	Ottawa
Mobile Description:				**District Office:**	
Prop City:				**Latitude:**	45.2337
Prop Postal:				**Longitude:**	-75.7681
Prop Phone:				**Geometry X:**	
Serial Link:				**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES				
Proponent:					
Prop Address:					
Proponent County/District:					
Full Address:	Part of Lot 9, Concession 4, Rideau Front				

Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

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14 | ***14 of 39*** | ***NNW/216.0*** | ***100.2 / -5.27*** | ***Plasco Trail Road Inc.*** ***Rideau Front*** ***Ottawa ON K2K 3E7*** | ***ECA***

Approval No:	7043-8A7KNZ	***MOE District:***	Ottawa
Approval Date:	2010-10-27	***City:***	
Status:	Amended	***Longitude:***	-75.7681
Record Type:	ECA	***Latitude:***	45.2337
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Rideau Valley	***Geometry Y:***	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9845-89XH6H-14.pdf
PDF Site Location:

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14 | ***15 of 39*** | ***NNW/216.0*** | ***100.2 / -5.27*** | ***Plasco Trail Road Inc.*** ***Rideau Front*** ***Ottawa ON K2K 3E7*** | ***ECA***

Approval No:	6925-6REN9E	***MOE District:***	Ottawa
Approval Date:	2010-01-25	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	-75.7681
Record Type:	ECA	***Latitude:***	45.2337
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Rideau Valley	***Geometry Y:***	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0766-7ZWSUX-14.pdf
PDF Site Location:

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14 | ***16 of 39*** | ***NNW/216.0*** | ***100.2 / -5.27*** | ***Plasco Trail Road Inc.*** ***Part of Lot 9, Concession 4, Rideau Front*** ***Ottawa ON K2K 3E7*** | ***ECA***

Approval No:	4152-84KLK5	***MOE District:***	Ottawa
Approval Date:	2011-01-07	***City:***	
Status:	Approved	***Longitude:***	-75.7681
Record Type:	ECA	***Latitude:***	45.2337

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9, Concession 4, Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2676-8CST26-14.pdf
PDF Site Location:
Geometry X:
Geometry Y:

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14 | **17 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Part of Lot 9, Concession 4, Rideau Front
Ottawa ON K2K 3E7 | **ECA**

Approval No: 6925-6REN9E
Approval Date: 2009-10-27
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9, Concession 4, Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2730-7X2R5T-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 | **18 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3E7 | **ECA**

Approval No: 6925-6REN9E
Approval Date: 2009-03-31
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9 Concession 4 Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8505-7QEPH9-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 | **19 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3E7 | **ECA**

Approval No: 6925-6REN9E
Approval Date: 2008-10-24
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9 Concession 4 Rideau Front
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3730-7KQKLM-14.pdf
PDF Site Location:

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14 **20 of 39** **NNW/216.0** **100.2 / -5.27**

City of Ottawa
Part Lots 8, 9 & 10, Concession 4, Moodie Drive
Ottawa ON K0A 2Z0

ECA

Approval No: 3-0989-92-006
Approval Date: 2002-02-05
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Part Lots 8, 9 & 10, Concession 4, Moodie Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5156-56XR7K-14.pdf
PDF Site Location:

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14 **21 of 39** **NNW/216.0** **100.2 / -5.27**

Plasco Trail Road Inc.
Rideau Front
Ottawa ON K2K 3G8

ECA

Approval No: 7043-8A7KNZ
Approval Date: 2010-11-26
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4179-8BCPUD-14.pdf
PDF Site Location:

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14 **22 of 39** **NNW/216.0** **100.2 / -5.27**

Plasco Trail Road Inc.
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3G8

ECA

Approval No: 3557-74LHFQ
Approval Date: 2007-07-04
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9 Concession 4 Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2402-74JQSQ-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	23 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	ECA

Approval No:	6925-6REN9E	**MOE District:**	Ottawa
Approval Date:	2009-04-23	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.7681
Record Type:	ECA	**Latitude:**	45.2337
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Plasco Trail Road Inc.		
Address:	Part of Lot 9, Concession 4, Rideau Front		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7271-7QXQD9-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	24 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2P 1J1	ECA

Approval No:	9022-6SSRGS	**MOE District:**	Ottawa
Approval Date:	2006-08-28	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.7681
Record Type:	ECA	**Latitude:**	45.2337
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	City of Ottawa		
Address:	Part of Lot 9, Concession 4, Rideau Front		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1011-6SHHRK-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	25 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	ECA

Approval No:	6925-6REN9E	**MOE District:**	Ottawa
Approval Date:	2009-12-11	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.7681
Record Type:	ECA	**Latitude:**	45.2337
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Plasco Trail Road Inc.		
Address:	Part of Lot 9, Concession 4, Rideau Front		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/0566-7WVNQ4-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	26 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9 Concession 4 Rideau Front Ottawa ON K2K 3G8	ECA

Approval No:	6925-6REN9E	**MOE District:**	Ottawa
Approval Date:	2007-12-05	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.7681

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9 Concession 4 Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4524-78WNK7-14.pdf
PDF Site Location:
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 | **27 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3E7 | **ECA**

Approval No: 6925-6REN9E
Approval Date: 2008-10-23
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9 Concession 4 Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8510-7HULAJ-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 | **28 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Tenth Line Development Inc.**
Part of Lot 13, Concession
Ottawa ON K2P 0Y6 | **ECA**

Approval No: 0660-53CRDY
Approval Date: 2001-10-11
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Tenth Line Development Inc.
Address: Part of Lot 13, Concession
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3193-536JTL-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 | **29 of 39** | **NNW/216.0** | **100.2 / -5.27** | **Plasco Trail Road Inc.**
Part of Lot 9, Concession 4, Rideau Front
Ottawa ON | **ECA**

Approval No: 6925-6REN9E
Approval Date: 2006-12-01
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Address: Part of Lot 9, Concession 4, Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4244-6R5J97-14.pdf
PDF Site Location:

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14 **30 of 39** **NNW/216.0** **100.2 / -5.27** **Plasco Trail Road Inc.** **ECA**
Part of Lot 9, Concession 4, Rideau Front
Ottawa ON K2K 3E7

Approval No: 4152-84KLK5
Approval Date: 2010-05-28
Status: Amended
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9, Concession 4, Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9889-7ZTSP9-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 **31 of 39** **NNW/216.0** **100.2 / -5.27** **Plasco Trail Road Inc.** **ECA**
Part of Lot 9 Concession 4 Rideau Front
Ottawa ON K2K 3E7

Approval No: 6925-6REN9E
Approval Date: 2008-12-02
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address: Part of Lot 9 Concession 4 Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5385-7LSLUB-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

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14 **32 of 39** **NNW/216.0** **100.2 / -5.27** **City of Ottawa** **ECA**
Rideau Front
Ottawa ON K1P 1J1

Approval No: 6974-7LHUSA
Approval Date: 2008-11-26
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Rideau Front
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5957-7LGR4T-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.7681
Latitude: 45.2337
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	33 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa Part of Lot 9, Concession 4, Rideau Front Ottawa ON K1P 1J1	ECA

Approval No:	8807-6VZMMT	**MOE District:**	Ottawa
Approval Date:	2006-12-04	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.7681
Record Type:	ECA	**Latitude:**	45.2337
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	City of Ottawa		
Address:	Part of Lot 9, Concession 4, Rideau Front		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8637-6VUQ6P-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	34 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	ECA

Approval No:	6925-6REN9E	**MOE District:**	Ottawa
Approval Date:	2010-02-22	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.7681
Record Type:	ECA	**Latitude:**	45.2337
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Plasco Trail Road Inc.		
Address:	Part of Lot 9, Concession 4, Rideau Front		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	35 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3G7	WDS

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m^3):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m^3):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m^3):**	
Application Status:		**Process Cap (m^3/d):**	
Issue Date:	2007-09-05	**Process Vol (m^3):**	
Input Date:		**Process Feed (m^3):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Prop Address:
Proponent County/District:
Full Address: Part of Lot 9, Concession 4, Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

14	36 of 39	NNW/216.0	100.2 / -5.27	**Plasco Trail Road Inc.** **Rideau Front** **Ottawa ON K2K 3E7**	WDS

Approval No: 3166-6TYMDZ
Mob Unit Cert No:
EBR Registry No:
Status: Revoked and/or Replaced
Facility Type:
Record Type: ECA
Link Source: IDS
Project Type: WASTE DISPOSAL SITES
Application Status:
Issue Date: 2011-01-13
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type: ECA-WASTE DISPOSAL SITES
Proponent:
Prop Address:
Proponent County/District:
Full Address: Rideau Front
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

Total Area (ha):
Landfill Cap (m^3):
Transfer Area (ha):
Transfer Cap (m^3):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m^3):
Process Cap (m^3/d):
Process Vol (m^3):
Process Feed (m^3):
Site Concession:
Site Region/County:
SWP Area Name: Rideau Valley
MOE District: Ottawa
District Office:
Latitude: 45.2337
Longitude: -75.7681
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	37 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON K2K 3E7	WDS

Approval No:	3166-6TYMDZ	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2011-01-13	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:	Part of Lot 9, Concession 4, Rideau Front		
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	38 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa Ottawa ON K0A 2Z0	WDS

Approval No:	A461301	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Approved	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2020-09-08	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:			
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/3512-BHDJRX-14.pdf		
PDF Site Location:			

14	39 of 39	NNW/216.0	100.2 / -5.27	**City of Ottawa** **Ottawa ON K0A 2Z0**	WDS

Approval No:	A461301	**Total Area (ha):**	
Mob Unit Cert No:		**Landfill Cap (m³):**	
EBR Registry No:		**Transfer Area (ha):**	
Status:	Revoked and/or Replaced	**Transfer Cap (m³):**	
Facility Type:		**Transfer Cert No:**	
Record Type:	ECA	**Inciner. Area (ha):**	
Link Source:	IDS	**Inciner. Cap (t):**	
Project Type:	WASTE DISPOSAL SITES	**Process Area (m³):**	
Application Status:		**Process Cap (m³/d):**	
Issue Date:	2019-10-08	**Process Vol (m³):**	
Input Date:		**Process Feed (m³):**	
Date Received:		**Site Concession:**	
Est Closure Date:		**Site Region/County:**	
Mobile Capacity:		**SWP Area Name:**	Rideau Valley
Mobile Units:		**MOE District:**	Ottawa
Mobile Description:		**District Office:**	
Prop City:		**Latitude:**	45.2337
Prop Postal:		**Longitude:**	-75.7681
Prop Phone:		**Geometry X:**	
Serial Link:		**Geometry Y:**	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:			
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			

Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

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15 | ***1 of 1*** | ***ENE/242.9*** | ***109.6 / 4.12*** | ***lot 8 con 4 ON*** | ***WWIS***

Well ID:	1517287	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Municipal	***Date Received:***	4/8/1980
Sec. Water Use:	0	***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1365
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	008
Well Depth:		***Concession:***	04
Overburden/Bedrock:		***Concession Name:***	RF
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/151\1517287.pdf

Additional Detail(s) (Map)

Well Completed Date:	1980/03/14
Year Completed:	1980
Depth (m):	38.7096
Latitude:	45.2321425334335
Longitude:	-75.7614402928757
Path:	151\1517287.pdf

Bore Hole Information

Bore Hole ID:	10039164	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	440229.70
Code OB Desc:		***North83:***	5009021.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	14-Mar-1980 00:00:00	***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:	931034684
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	60.0
Formation End Depth:	112.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931034683
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	08
Most Common Material:	FINE SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	28.0
Formation End Depth:	60.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931034682
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	0.0
Formation End Depth:	28.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931034685
Layer:	4
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES

Mat3: 71
Mat3 Desc: FRACTURED
Formation Top Depth: 112.0
Formation End Depth: 127.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961517287
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10587734
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930068585
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 127.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991517287
Pump Set At:
Static Level: 34.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 50.0
Pumping Rate: 50.0
Flowing Rate:
Recommended Pump Rate: 30.0
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

Draw Down & Recovery

Pump Test Detail ID: 934894003
Test Type: Draw Down
Test Duration: 60
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934383648
Test Type: Draw Down
Test Duration: 30
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934102806
Test Type: Draw Down
Test Duration: 15
Test Level: 50.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934644728
Test Type: Draw Down
Test Duration: 45
Test Level: 50.0
Test Level UOM: ft

Water Details

Water ID: 933473726
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120.0
Water Found Depth UOM: ft

Unplottable Summary

Total: 58 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Kanata Research Park Corporation	Plan 4M-1203, Blocks 1 to 17	Ottawa ON	
CA	Kanata Research Park Corporation		Ottawa ON	
CA	Kanata Research Park Corporation	Plan 4M-1203, Blocks 1 to 17	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.		Ottawa ON	
CA	Briarridge Sewage Pumping Station	Lot 9, Concession 4	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Tenth Line Development Inc.	Sandhill Rd Kanata	Ottawa ON	

CA	Daniel Patrick O'Brien	Part Lot 9, Concession 3, at Manotick Station	Ottawa ON	
CA	Plasco Trail Road Inc.	Rideau Front	Ottawa ON	
CA	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Rideau Front	Ottawa ON	
CA	Drain-All Ltd.	Mobile System	Ottawa ON	
CONV	DRAIN-ALL LTD.		ON	
ECA	Drain-All Ltd.	Mobile System	Ottawa ON	K1G 3N2
ECA	Plasco Trail Road Inc.		Ottawa ON	K0A 2Z0
ECA	Plasco Trail Road Inc.	Ottawa	ON	
ECA	Humanics Universal Inc.	Part of Lot 7	Ottawa ON	K4A 1Z6
ECA	Tenth Line Development Inc.	Part of Block 15, Plan 4M-755	Ottawa ON	K2P 0Y6
ECA	Plasco Trail Road Inc.		Ottawa ON	K0A 2Z0
ECA	Tenth Line Development Inc.	Part of Block 15, Plan 4M-755	Ottawa ON	K2P 0Y6
ECA	Plasco Trail Road Inc.		Ottawa ON	K0A 2Z0
GEN	Trans Northern Pipelines Inc.	Lot 8, Concession 4, Township of Osgoode	Ottawa ON	K0A 2W0
GEN	FRYER FOREST PRODUCTS LIMITED	LOT 7, CONCESSION 4	MARTLAND ON	P0M 2K0
GEN	DORION, CORPORATION OF THE TOWNSHIP OF	LOT 7, CONCESSION 4	DORION ON	
GEN	C & G ROSS CONSTRUCTION LTD. 33-475	LOT 7, CONCESSION 4	BLANSHARD TWP. ON	
GEN	C & G ROSS CONSTRUCTION LIMITED	LOT 7, CONCESSION 4	BLANSHARD TOWNSHIP ON	
GEN	CHALK WELL DRILLING LTD.	LOT 7, CONCESSION 4	RICHMOND TWP. ON	
GEN	MORVEN CONSTRUCTION LTD.	LOT 7, CONCESSION 4	ERNESTOWN TOWNSHIP ON	
NCPL	Plasco Trail Road Inc.	Rideau Front	Ottawa ON	

NCPL	Plasco Trail Road Inc.	Rideau Front	Ottawa ON
NCPL	Plasco Trail Road Inc.	Rideau Front	Ottawa ON
NCPL	Plasco Trail Road Inc.	Rideau Front	Ottawa ON
NCPL	Plasco Trail Road Inc.	Rideau Front	Ottawa ON
NCPL	Plasco Trail Road Inc.	Rideau Front	Ottawa ON
PTTW	Kanata Research Park Corporation	Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA	ON
PTTW	Burnside Sand & Gravel Limited	Lot 8, Concession 4RF, Ottawa (Geograpic Township of Nepean) Nepean	ON
SPL	Plasco Trail Road Inc.		Ottawa ON
SPL	City of Ottawa; Drain-All Ltd.		Ottawa ON
SPL	Plasco Trail Road Inc.		Ottawa ON
SPL	Plasco Trail Road Inc.	Trail Road, Nepean	Ottawa ON
WWIS		lot 8	ON
WWIS		lot 9	ON
WWIS		lot 7	ON
WWIS		lot 9	ON
WWIS		lot 8	ON
WWIS		lot 7	ON
WWIS		lot 8	ON

Unplottable Report

Site: ***Plasco Trail Road Inc.***
Part of Lot 9 Concession 4 Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2008
Issue Date: 10/24/2008
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9 Concession 4 Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2008
Issue Date: 10/23/2008
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 4152-84KLK5
Application Year: 2010
Issue Date: 5/28/2010
Approval Type: Air
Status: Amended
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Kanata Research Park Corporation***
Plan 4M-1203, Blocks 1 to 17 Ottawa ON

Database: ***CA***

Certificate #: 3807-62PHBL

Application Year: 2004
Issue Date: 8/13/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Kanata Research Park Corporation***
Ottawa ON

Database: ***CA***

Certificate #: 2794-5F6N36
Application Year: 2002
Issue Date: 10/22/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Kanata Research Park Corporation***
Plan 4M-1203, Blocks 1 to 17 Ottawa ON

Database: ***CA***

Certificate #: 2037-62NP7W
Application Year: 2004
Issue Date: 7/8/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 4152-84KLK5
Application Year: 2011
Issue Date: 1/7/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 4315-8JVP3K
Application Year: 2011
Issue Date: 10/24/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Briarridge Sewage Pumping Station***
Lot 9, Concession 4 Ottawa ON

Database: ***CA***

Certificate #: 1586-4WKNNQ
Application Year: 01
Issue Date: 5/18/01
Approval Type: Industrial air
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tenth Line Development Inc.
Client Address: 210 Gladstone Avenue, Suite 2001
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: This application is for a Certificate of Approval for a diesel generator.
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9 Concession 4 Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2008
Issue Date: 12/2/2008
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9 Concession 4 Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2009
Issue Date: 3/31/2009
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2009
Issue Date: 10/27/2009
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2009
Issue Date: 12/11/2009
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2009
Issue Date: 4/23/2009
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2010

Issue Date: 1/25/2010
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2006
Issue Date: 12/1/2006
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Tenth Line Development Inc.***
Sandhill Rd Kanata Ottawa ON

Database: ***CA***

Certificate #: 6996-7TWQND
Application Year: 2009
Issue Date: 7/14/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Daniel Patrick O'Brien***
Part Lot 9, Concession 3, at Manotick Station Ottawa ON

Database: ***CA***

Certificate #: 9380-68QMKZ
Application Year: 2005
Issue Date: 1/27/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 7043-8A7KNZ
Application Year: 2010
Issue Date: 11/26/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 8807-6VZMMT
Application Year: 2006
Issue Date: 12/4/2006
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Part of Lot 9, Concession 4, Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 9022-6SSRGS
Application Year: 2006
Issue Date: 8/28/2006
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***CA***

Certificate #: 7043-8A7KNZ
Application Year: 2010
Issue Date: 10/27/2010
Approval Type: Air
Status: Amended
Application Type:
Client Name:
Client Address:
Client City:

Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Drain-All Ltd.***
Mobile System Ottawa ON

Database: ***CA***

Certificate #: A860302
Application Year: 2006
Issue Date: 8/4/2006
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***DRAIN-ALL LTD.***
ON

Database: ***CONV***

File No:
Crown Brief No: 98-0000-9004
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: THIS IS THE EASTERN BRIEF FOR ALL P.O.A. TICKETS
Background:
URL:

Location:
Region: EASTERN REGION
Ministry District:

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 186(3)
Act/Regulation/Section: EPA- -186(3)
Date of Offence:
Date of Conviction:
Date Charged: 4/14/99
Charge Disposition: SUSPENDED SENTENCE
Fine: $305.00
Synopsis:

Site: ***Drain-All Ltd.***
Mobile System Ottawa ON K1G 3N2

Database: ***ECA***

Approval No: A860302
Approval Date: 2006-08-04
Status: Approved
Record Type: ECA
Link Source: IDS

MOE District: Ottawa
City:
Longitude:
Latitude:
Geometry X:

SWP Area Name: Rideau Valley
Geometry Y:
Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Business Name: Drain-All Ltd.
Address: Mobile System
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8652-6HXRNS-14.pdf
PDF Site Location:

Site: **Plasco Trail Road Inc.**
Ottawa ON K0A 2Z0

Database: ECA

Approval No: 4315-8JVP3K
MOE District:
Approval Date: 2012-02-23
City:
Status: Revoked and/or Replaced
Longitude:
Record Type: ECA
Latitude:
Link Source: IDS
Geometry X:
SWP Area Name:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8555-8RKQXG-14.pdf
PDF Site Location:

Site: **Plasco Trail Road Inc.**
Ottawa ON

Database: ECA

Approval No: 4315-8JVP3K
MOE District:
Approval Date: 2/23/2012
City: Ottawa
Status: Approved
Longitude:
Record Type:
Latitude:
Link Source:
Geometry X:
SWP Area Name:
Geometry Y:
Approval Type:
Project Type: Air/Noise
Business Name:
Address:
Full Address:
Full PDF Link:
PDF Site Location:

Site: **Humanics Universal Inc.**
Part of Lot 7 Ottawa ON K4A 1Z6

Database: ECA

Approval No: 2541-AK4T53
MOE District:
Approval Date: 2017-03-30
City:
Status: Approved
Longitude:
Record Type: ECA
Latitude:
Link Source: IDS
Geometry X:
SWP Area Name:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Humanics Universal Inc.
Address: Part of Lot 7
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6813-AA2NAF-14.pdf
PDF Site Location:

Site: **Tenth Line Development Inc.**
Part of Block 15, Plan 4M-755 Ottawa ON K2P 0Y6

Database: ECA

Approval No: 1948-56NRX6
Approval Date: 2002-01-28
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: Tenth Line Development Inc.
Address: Part of Block 15, Plan 4M-755
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Plasco Trail Road Inc.***
Ottawa ON K0A 2Z0

Database: ***ECA***

Approval No: 4315-8JVP3K
Approval Date: 2011-10-24
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5231-8EQR2W-14.pdf
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Tenth Line Development Inc.***
Part of Block 15, Plan 4M-755 Ottawa ON K2P 0Y6

Database: ***ECA***

Approval No: 4986-56NSR2
Approval Date: 2002-01-28
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Tenth Line Development Inc.
Address: Part of Block 15, Plan 4M-755
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3841-56FTGJ-14.pdf
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Plasco Trail Road Inc.***
Ottawa ON K0A 2Z0

Database: ***ECA***

Approval No: 4315-8JVP3K
Approval Date: 2012-09-10
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Plasco Trail Road Inc.
Address:
Full Address:
Full PDF Link:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

PDF Site Location:

Site: ***Trans Northern Pipelines Inc.***
Lot 8, Concession 4, Township of Osgoode Ottawa ON K0A 2W0

Database: ***GEN***

Generator No:	ON8926377	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Nov 2021	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

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Site: ***FRYER FOREST PRODUCTS LIMITED***
LOT 7, CONCESSION 4 MARTLAND ON P0M 2K0

Database: ***GEN***

Generator No:	ON0322000	***Status:***	
SIC Code:	2591	***Co Admin:***	
SIC Description:	WOOD PRESERVATION	***Choice of Contact:***	
Approval Years:	99,00,01	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Site: ***DORION, CORPORATION OF THE TOWNSHIP OF***
LOT 7, CONCESSION 4 DORION ON

Database: ***GEN***

Generator No:	ON0334200	***Status:***	
SIC Code:	8371	***Co Admin:***	
SIC Description:	TRANSPORTATION ADMIN.	***Choice of Contact:***	
Approval Years:	98,99,00,01,02,03,04,05,06,07,08	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***C & G ROSS CONSTRUCTION LTD. 33-475***
LOT 7, CONCESSION 4 BLANSHARD TWP. ON

Database: ***GEN***

Generator No:	ON1120900	***Status:***	
SIC Code:	0821	***Co Admin:***	
SIC Description:	SAND & GRAVEL PITS	***Choice of Contact:***	
Approval Years:	92,93,94,95,96,97,98	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***C & G ROSS CONSTRUCTION LIMITED***
LOT 7, CONCESSION 4 BLANSHARD TOWNSHIP ON

Database: ***GEN***

Generator No: ON1120900
SIC Code: 0821
SIC Description: SAND & GRAVEL PITS
Approval Years: 99,00,01
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***CHALK WELL DRILLING LTD.***
LOT 7, CONCESSION 4 RICHMOND TWP. ON

Database: ***GEN***

Generator No: ON2057900
SIC Code: 0919
SIC Description: SERVICE -OIL & GAS
Approval Years: 95,96,97,98,99,00,01
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***MORVEN CONSTRUCTION LTD.***
LOT 7, CONCESSION 4 ERNESTOWN TOWNSHIP ON

Database: ***GEN***

Generator No: ON1298600
SIC Code: 4411
SIC Description: CONSTR. PROJ. MGMT.
Approval Years: 99,00,01,02,03,04,05,06,07,08
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***NCPL***

Year: 2010
Site Name:
Facility Owner:
Discharge Type: Air Emissions
Sector: Electric Power Generation
District Area: Ottawa
Type of Concern: CofA/Permit Non-Compliance, Legislation Non-Compliance
Contaminant: NITROGEN OXIDES
Status Report:

Details

Incident Date: 8/11/2010
Exceedance Start Date: 8/11/2010
Exceedance End Date: 8/11/2010
Limit/Unit/Freq: 110 ppm dry volume /24h avg
Quantity Min/Max: 110.8/110.8
Facility Action: Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***NCPL***

Year: 2010
Site Name:
Facility Owner:
Discharge Type: Air Emissions
Sector: Electric Power Generation
District Area: Ottawa
Type of Concern: CofA/Permit Non-Compliance, Legislation Non-Compliance
Contaminant: ORGANIC MATERIAL
Status Report:

Details

Incident Date: 4/28/2010
Exceedance Start Date: 4/28/2010
Exceedance End Date: 4/28/2010
Limit/Unit/Freq: 100 ppm dry volume /10min avg
Quantity Min/Max: 138/138
Facility Action: Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 10/29/2010
Exceedance Start Date: 10/29/2010
Exceedance End Date: 10/30/2010
Limit/Unit/Freq: 100 ppm dry volume /10min avg
Quantity Min/Max: 176.59/266.22
Facility Action: Ceased Operations, Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 6/28/2010
Exceedance Start Date: 6/28/2010
Exceedance End Date: 6/28/2010
Limit/Unit/Freq: 100 ppm dry volume /10min avg
Quantity Min/Max: 134.61/609.35
Facility Action: Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 10/22/2010
Exceedance Start Date: 10/22/2010
Exceedance End Date: 10/22/2010
Limit/Unit/Freq: 100 ppm dry volume /10min avg
Quantity Min/Max: 100.8/100.8
Facility Action: Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 10/27/2010
Exceedance Start Date: 10/27/2010
Exceedance End Date: 10/27/2010
Limit/Unit/Freq: 100 ppm dry volume /10min avg
Quantity Min/Max: 269.8/269.8
Facility Action: Ceased Operations, Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 3/19/2010
Exceedance Start Date: 3/19/2010
Exceedance End Date: 3/19/2010
Limit/Unit/Freq: 100 ppm dry volume /10min avg

Quantity Min/Max: 102/226
Facility Action: Conducting Study
Ministry Action: Assessment Complete - Incident Resolved

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***NCPL***

Year: 2009
Site Name:
Facility Owner:
Discharge Type: Air Emissions
Sector: Miscellaneous Industrial
District Area: Ottawa
Type of Concern: CofA/Permit Non-Compliance Legislation Non-Compliance
Contaminant: NITROGEN OXIDES
Status Report:

Details

Incident Date: 9/24/2009
Exceedance Start Date: 9/24/2009
Exceedance End Date: 9/24/2009
Limit/Unit/Freq: 110 ppm
Quantity Min/Max: 139.65/139.65
Facility Action: Ceased Operations, Equipment Modified - Repaired - Replaced or Re-calibrated
Ministry Action: Assessment Complete - No Action Required

Incident Date: 6/12/2009
Exceedance Start Date: 6/12/2009
Exceedance End Date: 6/12/2009
Limit/Unit/Freq: 110 ppm
Quantity Min/Max: 110.8/110.8
Facility Action: Action Plan Submitted - Implementing Improvements, Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***NCPL***

Year: 2009
Site Name:
Facility Owner:
Discharge Type: Air Emissions
Sector: Miscellaneous Industrial
District Area: Ottawa
Type of Concern: CofA/Permit Non-Compliance Legislation Non-Compliance
Contaminant: SULPHUR DIOXIDE
Status Report:

Details

Incident Date: 9/14/2009
Exceedance Start Date: 9/14/2009
Exceedance End Date: 9/14/2009
Limit/Unit/Freq: 14 ppm
Quantity Min/Max: 13.82/13.82
Facility Action: Ceased Operations, Equipment Modified - Repaired - Replaced or Re-calibrated, New Equipment or Treatment Process Installed
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 10/1/2009
Exceedance Start Date: 10/1/2009
Exceedance End Date: 10/1/2009
Limit/Unit/Freq: 14 ppm
Quantity Min/Max: 14/14
Facility Action: Ceased Operations, Equipment Modified - Repaired - Replaced or Re-calibrated, New Equipment or Treatment

Process Installed
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 8/12/2009
Exceedance Start Date: 8/12/2009
Exceedance End Date: 8/12/2009
Limit/Unit/Freq: 14 ppm
Quantity Min/Max: 14.41/14.41
Facility Action: Ceased Operations, Equipment Modified - Repaired - Replaced or Re-calibrated, New Equipment or Treatment Process Installed, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***NCPL***

Year: 2009
Site Name:
Facility Owner:
Discharge Type: Air Emissions
Sector: Electric Power Generation
District Area: Ottawa
Type of Concern: CofA/Permit Non-Compliance, Legislation Non-Compliance
Contaminant: NITROGEN OXIDES
Status Report:

Details

Incident Date: 6/23/2009
Exceedance Start Date: 6/23/2009
Exceedance End Date: 7/30/2009
Limit/Unit/Freq: 110 ppm
Quantity Min/Max: 110.8/174.49
Facility Action: Ceased Operations, Equipment Modified - Repaired - Replaced or Re-calibrated
Ministry Action: Assessment Complete - Incident Resolved

Site: ***Plasco Trail Road Inc.***
Rideau Front Ottawa ON

Database: ***NCPL***

Year: 2009
Site Name:
Facility Owner:
Discharge Type: Air Emissions
Sector: Miscellaneous Industrial
District Area: Ottawa
Type of Concern: CofA/Permit Non-Compliance Legislation Non-Compliance
Contaminant: ORGANIC MATERIAL
Status Report:

Details

Incident Date: 4/3/2009
Exceedance Start Date: 4/3/2009
Exceedance End Date: 4/3/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 196.4/196.4
Facility Action: New Equipment or Treatment Process Installed
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 4/23/2009
Exceedance Start Date: 4/23/2009
Exceedance End Date: 4/23/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 137.42/137.42
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 5/27/2009
Exceedance Start Date: 5/27/2009
Exceedance End Date: 5/27/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 103/103
Facility Action: Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 1/11/2009
Exceedance Start Date: 1/7/2009
Exceedance End Date: 1/11/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 172.3/386.3
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated, New Equipment or Treatment Process Installed, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 5/8/2009
Exceedance Start Date: 5/8/2009
Exceedance End Date: 5/8/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 196/195.98
Facility Action: Other
Ministry Action: Assessment Complete - No Action Required

Incident Date: 3/18/2009
Exceedance Start Date: 3/18/2009
Exceedance End Date: 3/18/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 472/472
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 7/22/2009
Exceedance Start Date: 7/22/2009
Exceedance End Date: 7/22/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 145/145
Facility Action: New Equipment or Treatment Process Installed, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 5/7/2009
Exceedance Start Date: 5/7/2009
Exceedance End Date: 5/7/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 206.3/206.25
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 5/14/2009
Exceedance Start Date: 5/14/2009
Exceedance End Date: 5/14/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 149.92/149.92
Facility Action: Ceased Operations, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 6/12/2009
Exceedance Start Date: 6/12/2009
Exceedance End Date: 6/12/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 109.1/109.05
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 7/22/2009
Exceedance Start Date: 7/22/2009
Exceedance End Date: 7/22/2009
Limit/Unit/Freq: 100 ppm

Quantity Min/Max: 634/634
Facility Action: New Equipment or Treatment Process Installed, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 3/18/2009
Exceedance Start Date: 3/18/2009
Exceedance End Date: 3/18/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 141.53/141.53
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 8/4/2009
Exceedance Start Date: 8/4/2009
Exceedance End Date: 8/4/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 118.12/118.12
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 8/4/2009
Exceedance Start Date: 8/4/2009
Exceedance End Date: 8/4/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 286.6/286.6
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated, Operational Process Modification
Ministry Action: Assessment Complete - Incident Resolved

Incident Date: 4/23/2009
Exceedance Start Date: 4/23/2009
Exceedance End Date: 4/23/2009
Limit/Unit/Freq: 100 ppm
Quantity Min/Max: 316.19/316.19
Facility Action: Equipment Modified - Repaired - Replaced or Re-calibrated
Ministry Action: Assessment Complete - Incident Resolved

Site: ***Kanata Research Park Corporation***
Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA ON

Database: ***PTTW***

EBR Registry No: IA05E1015
Ministry Ref No: ER-3083-67XPBX
Notice Type: Instrument\sDecision
Notice Stage:
Notice Date: November\s02,\s2005
Proposal Date: June\s29,\s2005
Year: 2005
Instrument Type: (OWRA\ss.\s34)\s-\sPermit\sto\sTake\sWater
Off Instrument Name:
Posted By:
Company Name: Kanata\sResearch\sPark\sCorporation
Site Address:
Location Other:
Proponent Name:
Proponent Address: 555\sLegget\sDrive,\sKanata\sOntario,\sK2K\s2X3
Comment Period:
URL:

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

Site Location Details:

Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA

Site: ***Burnside Sand & Gravel Limited***
Lot 8, Concession 4RF, Ottawa (Geograpic Township of Nepean) Nepean ON

Database: ***PTTW***

EBR Registry No: IA03E1440
Ministry Ref No: ER-18582

Decision Posted:
Exception Posted:

Notice Type:	Instrument\sDecision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March\s16,\s2004	***Act 2:***	
Proposal Date:	October\s14,\s2003	***Site Location Map:***	
Year:	2003		
Instrument Type:	(OWRA\ss.\s34)\s-\sPermit\sto\sTake\sWater		
Off Instrument Name:			
Posted By:			
Company Name:	Burnside\sSand\s&\sGravel\sLimited		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	3301\sMoodie\sDrive,\sOttawa,\sON\sOntario,\sK2J\s4S8		
Comment Period:			
URL:			

Site Location Details:

Lot 8, Concession 4RF, Ottawa (Geograpic Township of Nepean) Nepean

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Site: ***Plasco Trail Road Inc.***
Ottawa ON

Database: ***SPL***

Ref No:	0286-9HUR26	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2014/04/04	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Leak/Break	***Sector Type:***	Truck - Tanker
Incident Event:		***Agency Involved:***	
Contaminant Code:	46	***Nearest Watercourse:***	
Contaminant Name:	TREATED PROCESS WATER	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Ottawa
Nature of Impact:	Soil Contamination; Surface Water Pollution	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2014/04/04	***Site Map Datum:***	
Dt Document Closed:	2014/09/10	***SAC Action Class:***	Land Spills
Incident Reason:	Equipment Failure	***Source Type:***	
Site Name:	4420 Trail Rd<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Spill of treated water to ashpalt		
Contaminant Qty:	75 L		

Site: ***City of Ottawa; Drain-All Ltd.***
Ottawa ON

Database: ***SPL***

Ref No:	2725-BCFDLJ	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	5/22/2019	***Health/Env Conseq:***	
Year:		***Client Type:***	Municipal Government; Corporation
Incident Cause:		***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	

Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	5/22/2019	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:		***Source Type:***	
Site Name:	To be determined<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	EGN for (3) zones - Ottawa Flooding (2019)		
Contaminant Qty:			

Site: ***Plasco Trail Road Inc.***
Ottawa ON

Database: ***SPL***

Ref No:	4471-8SBBU4	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	12-MAR-12	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge or Emission to Air	***Sector Type:***	Heat/Power Plant
Incident Event:		***Agency Involved:***	
Contaminant Code:	41	***Nearest Watercourse:***	
Contaminant Name:	TOTAL ORGANIC CARBON	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Air Pollution	***Site Lot:***	
Receiving Medium:	Sewage - Municipal/Private and Commercial	***Site Conc:***	
Receiving Env:		***Northing:***	NA
MOE Response:	No Field Response	***Easting:***	NA
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	12-MAR-12	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Air Spills - Gases and Vapours
Incident Reason:	Process upset	***Source Type:***	
Site Name:	4420 Trail Road		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TOC/CO exceedance March 12		
Contaminant Qty:			

Site: ***Plasco Trail Road Inc.***
Trail Road, Nepean Ottawa ON

Database: ***SPL***

Ref No:	8654-875HLL	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Discharges	***Sector Type:***	Waste Disposal Site
Incident Event:		***Agency Involved:***	
Contaminant Code:	99	***Nearest Watercourse:***	
Contaminant Name:	WATER	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/7/2010	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:		***Source Type:***	
Site Name:	Plasco Trail Road<UNOFFICIAL>		

Site County/District:
Site Geo Ref Meth:
Incident Summary: Plasco Trail Road: 600L raw water & waste run off to grnd
Contaminant Qty: 600 L

Site:
lot 8 ON

Database:
WWIS

Well ID: 1522158
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 07197
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/12/1988
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: RICHMOND VILLAGE
Site Info:
Lot: 008
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043971
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 13-Nov-1987 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931050420
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 26.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID:	931050421
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	26.0
Formation End Depth:	85.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961522158
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10592541
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930076882
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	29.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930076883
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	85.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991522158
Pump Set At:	
Static Level:	3.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	30.0
Pumping Rate:	15.0
Flowing Rate:	
Recommended Pump Rate:	8.0

Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934654508
Test Type:
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902363
Test Type:
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392957
Test Type:
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934109272
Test Type:
Test Duration: 15
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933479942
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

Water Details

Water ID: 933479943
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 79.0
Water Found Depth UOM: ft

Site:
lot 9 ON

Database: ***WWIS***

Well ID: 1526280 ***Data Entry Status:***

Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	6/22/1992
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:	111829	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	RICHMOND VILLAGE
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	009
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:			

Bore Hole Information

Bore Hole ID:	10047998	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	17-Jun-1992 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931063708
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	18.0
Formation End Depth:	63.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931063707
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES

Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 0.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961526280
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10596568
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930084016
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930084017
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 63.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526280
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 30.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934908621
Test Type:
Test Duration: 60
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934107268
Test Type:
Test Duration: 15
Test Level: 8.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390483
Test Type:
Test Duration: 30
Test Level: 7.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651423
Test Type:
Test Duration: 45
Test Level: 6.0
Test Level UOM: ft

Water Details

Water ID: 933485532
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 57.0
Water Found Depth UOM: ft

Water Details

Water ID: 933485531
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Site:
lot 7 ON

Database:
WWIS

Well ID: 1524618
Construction Date:
Primary Water Use: Cooling And A/C
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: 84331
Tag:
Construction Method:
Elevation (m):

Data Entry Status:
Data Src: 1
Date Received: 6/21/1990
Selected Flag: TRUE
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY

Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Site Info:
Lot: 007
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046366
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 13-Jun-1990 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931058525
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931058527
Layer: 3
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 21.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931058526
Layer:	2
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	08
Mat2 Desc:	FINE SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	12.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961524618
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10594936
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930081182
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	10.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Site:
lot 9 ON

Database:
WWIS

Well ID:	1522957	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	10/26/1988
Sec. Water Use:		***Selected Flag:***	TRUE
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:	27045	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	RICHMOND VILLAGE
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	009
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:			

Bore Hole Information

Bore Hole ID:	10044764	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	28-Jul-1988 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931053062
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	24.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931053061
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931053063
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30.0

Formation End Depth: 64.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961522957
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10593334
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930078311
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 33.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930078312
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 64.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991522957
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 25.0
Pumping Rate: 40.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934648520

Test Type:
Test Duration: 45
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387538
Test Type:
Test Duration: 30
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934905727
Test Type:
Test Duration: 60
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112115
Test Type:
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Water Details

Water ID: 933481039
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 57.0
Water Found Depth UOM: ft

Site:
lot 8 ON

Database:
WWIS

Well ID: 1521723
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 08550
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/14/1987
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: RICHMOND VILLAGE
Site Info:
Lot: 008
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043540
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-Jun-1987 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931048926
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 25.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931048925
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931048927
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 65.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521723
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10592110
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930076074
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930076075
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 65.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521723
Pump Set At:
Static Level: 7.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 25.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934910505
Test Type:
Test Duration: 60

Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934652855
Test Type:
Test Duration: 45
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934107611
Test Type:
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934391854
Test Type:
Test Duration: 30
Test Level: 25.0
Test Level UOM: ft

Water Details

Water ID: 933479399
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 58.0
Water Found Depth UOM: ft

Site:
lot 7 ON

Database:
WWIS

Well ID: 1521721
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 08551
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/14/1987
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: RICHMOND VILLAGE
Site Info:
Lot: 007
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043538
DP2BR:
Elevation:
Elevrc:

Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-Jun-1987 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931048920
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931048921
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931048922
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 27.0
Formation End Depth: 65.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521721
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10592108
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930076070
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930076071
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 65.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521721
Pump Set At:
Static Level: 7.0
Final Level After Pumping: 25.0
Recommended Pump Depth: 25.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391852
Test Type:
Test Duration: 30
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934107609
Test Type:
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934652853
Test Type:
Test Duration: 45
Test Level: 25.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910503
Test Type:
Test Duration: 60
Test Level: 25.0
Test Level UOM: ft

Water Details

Water ID: 933479397
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60.0
Water Found Depth UOM: ft

Site:
lot 8 ON

Database:
WWIS

Well ID: 1500396
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 2/26/1948
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1107
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY (GLOUCESTER)
Site Info:
Lot: 008
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10022441
DP2BR:
Spatial Status:
Code OB:

Elevation:
Elevrc:
Zone: 18
East83:

Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 29-Oct-1947 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 930989162
Layer: 2
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2: 19
Mat2 Desc: SLATE
Mat3:
Mat3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989161
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500396
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10571011
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037815
Layer: 1

Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 28.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037816
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 51.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500396
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 6.0
Recommended Pump Depth:
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 8.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933452913
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 51.0
Water Found Depth UOM: ft

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 Nov 2021

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-Sep 30, 2021

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 2019

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: Feb 28, 2022

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-Sep 30, 2021

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 -Nov 2021

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-Jan 2022

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, 2022

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: Feb 28, 2022

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, 2022

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, 2022

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, 2022

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-Nov 30, 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 or 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, 2021

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: Feb 28, 2022

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 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: Feb 28, 2022

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-Nov 30, 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 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

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-Feb 2022

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, 2020

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-Jun 30, 2021

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, 2022

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-Jan 2021

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 - Feb 28, 2022

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, 2022

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: Feb 28, 2021

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, 2022

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

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 2022

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-Sep 30, 2021

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. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

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, 2019

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

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Mar 31, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Sep 30, 2021

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 F: Aerial Photographs

LEGEND

PROPERTY BOUNDARY

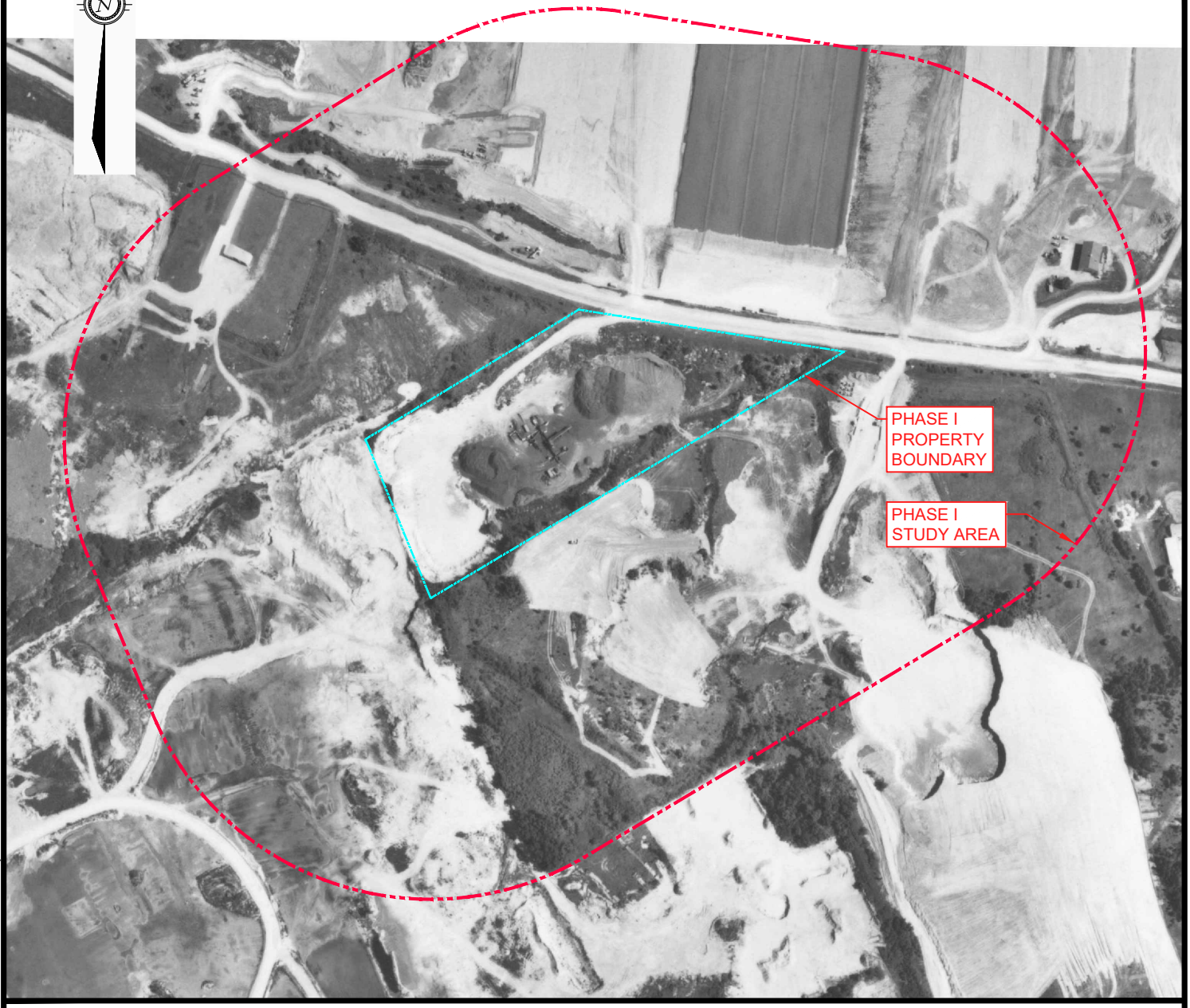
STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

EXP Services Inc. **www.exp.com**
t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale 1:5,000
DRAWN BY: TM	TITLE: 1976 AERIAL PHOTOGRAPH 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-1



LEGEND

PROPERTY BOUNDARY

STUDY AREA (250m)

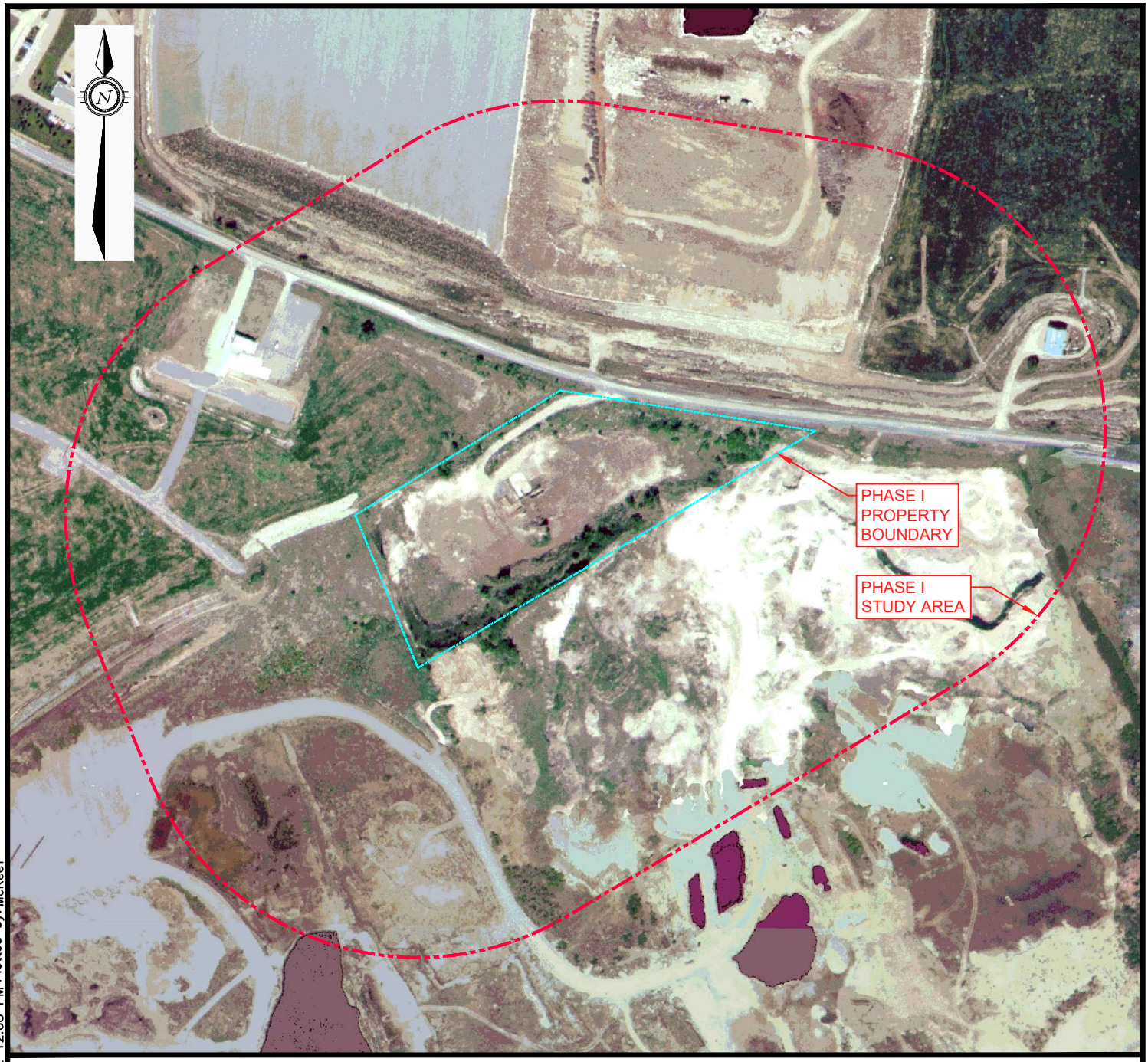
0 50m 100m 200m

HORIZONTAL 1:5,000

EXP Services Inc. **www.exp.com**
t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale: 1:5,000
DRAWN BY: TM	TITLE: 1991 AERIAL PHOTOGRAPH 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-2

Filename: E:\OTT\OTT-21023795-A0\60 Execution\65 Drawings\env\appendix F\21023795-A0 Appendix F.dwg
Last Saved: Jun 23, 2022 12:07 PM Last Plotted: Jun 23, 2022 12:08 PM Plotted by: McKeeT



LEGEND

PROPERTY BOUNDARY

STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale: 1:5,000
DRAWN BY: TM	TITLE: 1999 AERIAL PHOTOGRAPH, 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-3

Filename: E:\OTT\OTT-21023795-A0\60 Execution\65 Drawings\env\appendix F\21023795-A0 Appendix F.dwg
Last Saved: Jun 23, 2022 12:07 PM Last Plotted: Jun 23, 2022 12:08 PM Plotted by: McKeeT

LEGEND

PROPERTY BOUNDARY

STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

EXP Services Inc. **www.exp.com**
t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale: 1:5,000
DRAWN BY: TM	TITLE: 2005 AERIAL PHOTOGRAPH 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-4

Filename: E:\OTT\OTT-21023795-A0\60 Execution\65 Drawings\env\appendix F\21023795-A0 Appendix F.dwg
Last Saved: Jun 23, 2022 12:07 PM Last Plotted: Jun 23, 2022 12:08 PM Plotted by: McKeeT

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PROPERTY BOUNDARY

STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale: 1:5,000
DRAWN BY: TM	TITLE: 2008 AERIAL PHOTOGRAPH 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-5

LEGEND

PROPERTY BOUNDARY

STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale: 1:5,000
DRAWN BY: TM	TITLE: 2015 AERIAL PHOTOGRAPH, 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-6

Filename: E:\OTT\OTT-21023795-A0\60 Execution\65 Drawings\env\appendix F\21023795-A0 Appendix F.dwg
Last Saved: Jun 23, 2022 12:07 PM Last Plotted: Jun 23, 2022 12:08 PM Plotted by: McKeeT

LEGEND

PROPERTY BOUNDARY

STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

EXP Services Inc. **www.exp.com**
t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE: JUNE 2022	CLIENT: DRAIN-ALL LTD.	project no. OTT-21023795-A0
DESIGN: LW / CHECKED: LW		scale: 1:5,000
DRAWN BY: TM	TITLE: 2019 AERIAL PHOTOGRAPH 4380 TRAIL ROAD, OTTAWA, ONTARIO	FIG F-7

Filename: E:\OTT\OTT-21023795-A0\60 Execution\65 Drawings\env\appendix F\21023795-A0 Appendix F.dwg
Last Saved: Jun 23, 2022 12:07 PM Last Plotted: Jun 23, 2022 12:08 PM Plotted by: McKeeT

Appendix G: Analytical Tables

Table 1 - Analytical Results in Groundwater - PHC and VOC
4380 Trail Road Road, Ottawa, Ontario
OTT-21023798-A0

Parameter	Units	MECP Table 2 [1]	MW-2 (P2)		MW-3		DUP 1 (Field Dulicate MW-3)	MW-4		MW-5		P3 (Field Duplicate of MW-5)	MW-6		Trip Blank		Field Blank
Sampling Date		Orange	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	9-Jun-2022	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	5-May-2023	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	5-May-2023
Screen Depth (mbgs)			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	3.6 to 6.7	3.6 to 6.7	3.6 to 6.7	5.9 to 9.0	5.9 to 9.0	N/A	N/A	N/A
Volatile Organic Compounds																	
Acetone	ug/L	2700	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Benzene	ug/L	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	ug/L	16	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromoform	ug/L	25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/L	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	ug/L	0.8	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chlorobenzene	ug/L	30	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	ug/L	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	ug/L	25	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/L	590	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichlorobenzene	ug/L	3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichlorobenzene	ug/L	59	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	ug/L	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	ug/L	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethylene	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethylene	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethylene	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	ug/L	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropylene	ug/L	NV	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropylene	ug/L	NV	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichloropropene, total	ug/L	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylene dibromide (dibromoethane, 1,2-)	ug/L	0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexane	ug/L	51	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Methyl Isobutyl Ketone	ug/L	640	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Methyl tert-butyl ether	ug/L	15	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methylene Chloride	ug/L	50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	ug/L	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	ug/L	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/L	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	ug/L	24	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-Trichloroethane	ug/L	200	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	ug/L	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	ug/L	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	ug/L	150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/L	0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
m/p-Xylene	ug/L	NV	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	ug/L	NV	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes, total	ug/L	300	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Petroleum Hydrocarbons																	
F1 PHC (C6 - C10) - BTEX*	ug/L	750	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	-	-	-
F2 PHC (C10-C16)	ug/L	150	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	-	-	-
F3 PHC (C16-C34)	ug/L	500	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	-	-	-
F4 PHC (C34-C50)**	ug/L	500	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	-	-	-

NOTES:

1 Ontario Ministry of Environment, Conservation and Parks (MECP), Soil, Groundwater and Sediment Standards for use under Part XV.1 of the Environmental Protection Act, April 2011, Table 2 Generic Site Condition Standards in a Potable Ground Water Condition for all types of Property Use (coarse textured soils).

* F1 fraction does not include BTEX.
** In instances where the PHC F2 to F4 chromatogram did not reach baseline, the F4 fraction result shown is the highest value obtained via the gas chromatograph/flame ionization detection method or the gravimetric method.
ND Non-detectable results are shown as "< (RDL)" where RDL represents the reporting detection limit.
NV No Value
N/A Not Applicable
\- Parameter not analyzed
m bgs Metres below ground surface
Indicates groundwater exceedance of MECP Table 2 SCS

Table 2 - Analytical Results in Groundwater - PAH
4380 Trail Road Road, Ottawa, Ontario
OTT-21023798-A0

Parameter	Units	MECP Table 2 [1]	MW-2 (P2)		MW-3		DUP 1 (Field Dulicate MW-3)	MW-4		MW-5		P3 (Field Duplicate of MW-5)	MW-6	
Sampling Date		Orange	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	9-Jun-2022	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	5-May-2023	9-Jun-2022	5-May-2023
Screen Depth (mbgs)			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	3.6 to 6.7	3.6 to 6.7	3.6 to 6.7	5.9 to 9.0	5.9 to 9.0
Volatile Organic Compounds														
Acenaphthene	ug/L	4.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	ug/L	1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	ug/L	2.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	ug/L	1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	ug/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/L	0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b+k)fluoranthene	ug/L	NV	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	ug/L	0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	ug/L	0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	ug/L	0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	ug/L	0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	ug/L	0.41	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	ug/L	120	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3,-cd)pyrene	ug/L	0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene,1-	ug/L	3.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene,2-	ug/L	3.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene 2-(1-)	ug/L	3.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	ug/L	11	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	ug/L	1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	ug/L	4.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

NOTES:

1	Ontario Ministry of Environment, Conservation and Parks (MECP), Soil, Groundwater and Sediment Standards for use under Part XV.1 of the Environmental Protection Act, April 2011, Table 2 Generic Site Condition Standards in a Potable Ground Water Condition for all types of Property Use (coarse textured soils).
*	F1 fraction does not include BTEX.
**	In instances where the PHC F2 to F4 chromatogram did not reach baseline, the F4 fraction result shown is the highest value obtained via the gas chromatograph/flame ionization detection method or the gravimetric method.
ND	Non-detectable results are shown as "< (RDL)" where RDL represents the reporting detection limit.
NV	No Value
N/A	Not Applicable
-	Parameter not analyzed
m bgs	Metres below ground surface
	Indicates groundwater exceedance of MECP Table 2 SCS

Table 3 - Analytical Results in Groundwater - Metals and Inorganics
4380 Trail Road Road, Ottawa, Ontario
OTT-21023798-A0

Parameter	Units	MECP Table 2 [1]	MW-2 (P2)		MW-3		DUP 1 (Field Dulicate MW-3)	MW-4		MW-5		P3 (Field Duplicate of MW-5)	MW-6	
Sampling Date		Orange	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	9-Jun-2022	9-Jun-2022	5-May-2023	9-Jun-2022	5-May-2023	5-May-2023	9-Jun-2022	5-May-2023
Screen Depth (mbgs)			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	3.6 to 6.7	3.6 to 6.7	3.6 to 6.7	5.9 to 9.0	5.9 to 9.0
Metals														
Antimony	ug/L	6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.10	< 0.5
Arsenic	ug/L	25	0.10	0.10	< 0.1	< 0.1	< 0.1	0.20	< 0.1	0.20	0.10	0.10	0.10	< 0.5
Barium	ug/L	1000	106.00	59.00	259.00	239.00	257.00	361.00	272.00	178.00	189.00	167.00	137.00	55.00
Beryllium	ug/L	4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Boron	ug/L	5000	22.00	24.00	59.00	119.00	57.00	34.00	74.00	39.00	51.00	52.00	105.00	660.00
Cadmium	ug/L	2.7	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	0.02	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.070
Chromium	ug/L	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chromium (VI)	ug/L	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Cobalt	ug/L	4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.40	0.20	0.90	< 0.1	< 0.1	0.70	< 0.5
Copper	ug/L	87	< 2	< 2	< 2	< 2	< 2	< 2	2.00	2.00	2.00	< 2	2.00	5.00
Lead	ug/L	10	< 0.02	0.02	< 0.02	0.05	< 0.02	< 0.02	0.04	0.03	0.06	< 0.02	0.02	< 0.1
Mercury	ug/L	0.29	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Molybdenum	ug/L	70	1.90	2.30	1.50	1.90	1.40	3.20	1.80	3.60	1.60	1.70	4.20	2.10
Nickel	ug/L	100	0.70	0.50	0.30	0.30	0.30	2.00	1.40	1.90	1.00	0.90	1.60	2.70
Selenium	ug/L	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.00	4.00	4.00	4.00	< 5
Silver	ug/L	2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sodium	ug/L	490000	85000	71400	20000	19700	20000	10900	10300	22500	23400	23100	25300	88000
Thallium	ug/L	2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.3
Uranium	ug/L	20	1.01	1.22	0.56	0.36	0.56	4.18	2.92	0.60	0.63	0.64	1.09	2.65
Vanadium	ug/L	6	0.20	0.40	0.20	0.20	0.20	< 0.1	< 0.1	0.50	0.40	0.40	0.20	< 0.5
Zinc	ug/L	1100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Inorganics														
pH @25°C	pH Units	NV	7.70	8.06	8.03	8.11	8.07	7.84	7.99	7.98	8	8.01	8.02	7.8
Conductivity @25°C	µmho/cm	NV	1070	0.849	646	0.566	644	618	0.622	722	0.84	0.849	934	2.22
Chloride	µg/L	790000	51000	49.2	20500	23	20700	18100	8.4	25400	22.8	23.3	23300	36.9
Cyanide (Free)	µg/L	66	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

NOTES:

1	Ontario Ministry of Environment, Conservation and Parks (MECP), Soil, Groundwater and Sediment Standards for use under Part XV.1 of the Environmental Protection Act, April 2011, Table 2 Generic Site Condition Standards in a Potable Ground Water Condition for all types of Property Use (coarse textured soils).
*	F1 fraction does not include BTEX.
**	In instances where the PHC F2 to F4 chromatogram did not reach baseline, the F4 fraction result shown is the highest value obtained via the gas chromatograph/flame ionization detection method or the gravimetric method.
ND	Non-detectable results are shown as "< (RDL)" where RDL represents the reporting detection limit.
NV	No Value
N/A	Not Applicable
-	Parameter not analyzed
m bgs	Metres below ground surface
	Indicates groundwater exceedance of MECP Table 2 SCS

Table 4 - Relative Percent Differences - Metals in Groundwater
780 Baseline Road, Ottawa, Ontario
OTT-21011499-C0

Parameter	Units	RDL	MW5	P3 (Field Duplicate)	RPD (%)	Alert Limit (%)
			5-May-2023	5-May-2023		
Metals						
Antimony	ug/L	0.1	< 0.1	< 0.1	nc	20
Arsenic	ug/L	0.1	0.10	0.10	nc	20
Barium	ug/L	1	189.00	167.00	12.36	20
Beryllium	ug/L	0.1	< 0.1	< 0.1	nc	20
Boron	ug/L	5	51.00	52.00	nc	20
Cadmium	ug/L	0.015	< 0.015	< 0.015	nc	20
Chromium	ug/L	2	< 2	< 2	nc	20
Chromium (VI)	ug/L	10	< 10	< 10	nc	20
Cobalt	ug/L	0.1	< 0.1	< 0.1	nc	20
Copper	ug/L	2	2.00	< 2	nc	20
Lead	ug/L	0.02	0.06	< 0.02	nc	20
Mercury	ug/L	0.02	< 0.02	< 0.02	nc	20
Molybdenum	ug/L	0.1	1.60	1.70	6.06	20
Nickel	ug/L	0.20	1.00	0.90	nc	20
Selenium	ug/L	1	4.00	4.00	nc	20
Silver	ug/L	0.1	< 0.1	< 0.1	nc	20
Sodium	ug/L	200	23400.00	23100.00	1.29	20
Thallium	ug/L	0.05	< 0.05	< 0.05	nc	20
Uranium	ug/L	0.05	0.63	0.64	1.57	20
Vanadium	ug/L	0.1	0.40	0.40	nc	20
Zinc	ug/L	5	< 5	< 5	nc	20

NOTES:

Analysis by Caduceon Labratories Ltd.

Non-detectable results are shown as "ND (RDL)" where RDL represents the reporting detection limit.

- means "not analysed"

nc means "not calculable" - one (or both) of the results are <5x RDL

Exceedances of alert limits are shown in **bold**

Appendix H: Laboratory Certificates of Analysis

CADUCEON™ ENVIRONMENTAL LABORATORIES
Client committed. Quality assured.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

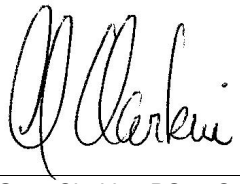
JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
Cyanide	6	Kingston	kwe	15-Jun-22	A-CN-001 (k)	SM 4500CN
Conductivity	6	Holly Lane	SYL	13-Jun-22	A-COND-02 (o)	SM 2510B
Anions	6	Holly Lane	VK	14-Jun-22	A-IC-01 (o)	SM4110C
pH	6	Holly Lane	SYL	13-Jun-22	A-PH-01 (o)	SM 4500H
SVOC	6	Kingston	esi	14-Jun-22	C-NAB-S-001 (k)	EPA 8270
SVOC	6	Kingston	esi	14-Jun-22	C-NAB-W-001 (k)	EPA 8270
PHC(F2-F4)	6	Kingston	KPR	13-Jun-22	C-PHC-W-001 (k)	MOE E3421
VOC's	7	Richmond Hill	FAL	13-Jun-22	C-VOC-02 (rh)	EPA 8260
PHC(F1)	6	Richmond Hill	FAL	13-Jun-22	C-VPHW-01 (rh)	MOE E3421
Chromium (VI)	6	Holly Lane	ST	15-Jun-22	D-CRVI-01 (o)	MOE E3056
Mercury	6	Holly Lane	PBK	15-Jun-22	D-HG-02 (o)	SM 3112 B
Metals - ICP-OES	6	Holly Lane	AHM	14-Jun-22	D-ICP-01 (o)	SM 3120
Metals - ICP-MS	6	Holly Lane	TPR	16-Jun-22	D-ICPMS-01 (o)	EPA 200.8

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:
EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

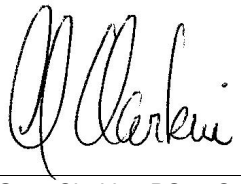
Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
pH @25°C	pH Units		7.70	8.03	7.84	7.98		
Conductivity @25°C	µmho/cm	1	1070	646	618	722		
Chloride	µg/L	500	51000	20500	18100	25400	790000	
Cyanide (Free)	µg/L	5	< 5	< 5	< 5	< 5	5	
Antimony	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.5	
Arsenic	µg/L	0.1	0.1	< 0.1	0.2	0.2	13	
Barium	µg/L	1	106	259	361	178	610	
Beryllium	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5	
Boron	µg/L	5	22	59	34	39	1700	
Cadmium	µg/L	0.015	< 0.015	< 0.015	0.022	< 0.015	0.5	
Chromium	µg/L	2	< 2	< 2	< 2	< 2	11	
Chromium (VI)	µg/L	10	< 10 [1]	< 10 [1]	< 10 [1]	< 10 [1]	25	
Cobalt	µg/L	0.1	< 0.1	< 0.1	1.4	0.9	3.8	
Copper	µg/L	2	< 2	< 2	< 2	2	5	
Lead	µg/L	0.02	< 0.02	< 0.02	< 0.02	0.03	1.9	
Mercury	µg/L	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1	
Molybdenum	µg/L	0.1	1.9	1.5	3.2	3.6	23	
Nickel	µg/L	0.2	0.7	0.3	2.0	1.9	14	
Selenium	µg/L	1	< 1	< 1	< 1	2	5	
Silver	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	
Sodium	µg/L	200	85000	20000	10900	22500	490000	
Thallium	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.5	
Uranium	µg/L	0.05	1.01	0.56	4.18	0.60	8.9	
Vanadium	µg/L	0.1	0.2	0.2	< 0.1	0.5	3.9	
Zinc	µg/L	5	< 5	< 5	< 5	< 5	160	
Acetone	µg/L	30	< 30	< 30	< 30	< 30	2700	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



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Lab Manager - Ottawa District

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Attention: Chris Kimmerly

Caduceon Environmental Laboratories
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Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
Benzene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Bromodichloromethane	µg/L	2	< 2	< 2	< 2	< 2	2	
Bromoform	µg/L	5	< 5	< 5	< 5	< 5	5	
Bromomethane	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.89	
Carbon Tetrachloride	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.2	
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Chloroform	µg/L	1	< 1	< 1	< 1	< 1	2	
Dibromochloromethane	µg/L	2	< 2	< 2	< 2	< 2	2	
Dichlorobenzene,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichlorobenzene,1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichlorobenzene,1,4-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichlorodifluoromethane	µg/L	2	< 2	< 2	< 2	< 2	590	
Dichloroethane,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloroethane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloroethylene,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloroethene, cis-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	
Dichloroethene, trans-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	
Dichloropropane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloropropene, cis-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Dichloropropene, trans-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Dichloropropene 1,3-cis+trans	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Ethylbenzene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dibromoethane,1,2- (Ethylene Dibromide)	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.2	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

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Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
Hexane	µg/L	5	< 5	< 5	< 5	< 5	5	
Methyl Ethyl Ketone	µg/L	20	< 20	< 20	< 20	< 20	400	
Methyl Isobutyl Ketone	µg/L	20	< 20	< 20	< 20	< 20	640	
Methyl-t-butyl Ether	µg/L	2	< 2	< 2	< 2	< 2	15	
Dichloromethane (Methylene Chloride)	µg/L	5	< 5	< 5	< 5	< 5	5	
Styrene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Tetrachloroethane,1,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	
Tetrachloroethane,1,1,2,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Tetrachloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Toluene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	
Trichloroethane,1,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Trichloroethane,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Trichloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Trichlorofluoromethane	µg/L	5	< 5	< 5	< 5	< 5	150	
Vinyl Chloride	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.5	
Xylene, m,p-	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Xylene, o-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Xylene, m,p,o-	µg/L	1.1	< 1.1	< 1.1	< 1.1	< 1.1	72	
Dibromofluoromethane (SS)	% rec.		91.5	104	94.0	95.8		
Toluene-d8 (SS)	% rec.		93.0	95.3	95.4	94.8		
Bromofluorobenzene,4(SS)	% rec.		100	99.1	98.5	98.6		
PHC F1 (C6-C10)	µg/L	25	< 25	< 25	< 25	< 25	420	
PHC F2 (>C10-C16)	µg/L	50	< 50	< 50	< 50	< 50	150	
PHC F3 (>C16-C34)	µg/L	400	< 400	< 400	< 400	< 400	500	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

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Lab Manager - Ottawa District

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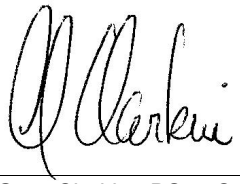
DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
PHC F4 (>C34-C50)	µg/L	400	< 400	< 400	< 400	< 400	500	
Acenaphthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	4.1	
Acenaphthylene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	1	
Anthracene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Benzo(a)anthracene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Benzo(a)pyrene	µg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	
Benzo(b)fluoranthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Benzo(b+k)fluoranthene	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Benzo(k)fluoranthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Chrysene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Dibenzo(a,h)anthracene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Fluoranthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.4	
Fluorene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	120	
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Methylnaphthalene,1-	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	2	
Methylnaphthalene,2-	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	2	
Methylnaphthalene 2-(1-)	µg/L	1	< 1	< 1	< 1	< 1	2	
Naphthalene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	7	
Phenanthrene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Pyrene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Terphenyl-d14 (SS)	% rec.	10	84.0	83.0	88.0	89.0		

1 . Chromium (VI) result is based on total chromium

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



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DATE RECEIVED: 09-Jun-22
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SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D. / Sample I.D. / Date Collected		MW-6 B22-17759-5 09-Jun-22	DUP 1 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7		O. Reg. 153 Tbl. 1 - GW (µg/L)	
Parameter	**Units**	**R.L.**						
pH @25°C	pH Units		8.02	8.07				
Conductivity @25°C	µmho/cm	1	934	644				
Chloride	µg/L	500	23300	20700			790000	
Cyanide (Free)	µg/L	5	< 5	< 5			5	
Antimony	µg/L	0.1	0.1	< 0.1			1.5	
Arsenic	µg/L	0.1	0.1	< 0.1			13	
Barium	µg/L	1	137	257			610	
Beryllium	µg/L	0.1	< 0.1	< 0.1			0.5	
Boron	µg/L	5	105	57			1700	
Cadmium	µg/L	0.015	< 0.015	< 0.015			0.5	
Chromium	µg/L	2	< 2	< 2			11	
Chromium (VI)	µg/L	10	< 10 [1]	< 10 [1]			25	
Cobalt	µg/L	0.1	0.7	< 0.1			3.8	
Copper	µg/L	2	2	< 2			5	
Lead	µg/L	0.02	0.02	< 0.02			1.9	
Mercury	µg/L	0.02	< 0.02	< 0.02			0.1	
Molybdenum	µg/L	0.1	4.2	1.4			23	
Nickel	µg/L	0.2	1.6	0.3			14	
Selenium	µg/L	1	4	< 1			5	
Silver	µg/L	0.1	< 0.1	< 0.1			0.3	
Sodium	µg/L	200	25300	20000			490000	
Thallium	µg/L	0.05	< 0.05	< 0.05			0.5	
Uranium	µg/L	0.05	1.09	0.56			8.9	
Vanadium	µg/L	0.1	0.2	0.2			3.9	
Zinc	µg/L	5	< 5	< 5			160	
Acetone	µg/L	30	< 30	< 30	< 30		2700	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

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DATE RECEIVED: 09-Jun-22
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SAMPLE MATRIX: Groundwater

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P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		MW-6	DUP 1	Trip Blank		O. Reg. 153 Tbl. 1 - GW (µg/L)	
	Sample I.D.		B22-17759-5	B22-17759-6	B22-17759-7			
	Date Collected		09-Jun-22	09-Jun-22				
Parameter	**Units**	**R.L.**						
Benzene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Bromodichloromethane	µg/L	2	< 2	< 2	< 2		2	
Bromoform	µg/L	5	< 5	< 5	< 5		5	
Bromomethane	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.89	
Carbon Tetrachloride	µg/L	0.2	< 0.2	< 0.2	< 0.2		0.2	
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Chloroform	µg/L	1	< 1	< 1	< 1		2	
Dibromochloromethane	µg/L	2	< 2	< 2	< 2		2	
Dichlorobenzene,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichlorobenzene,1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichlorobenzene,1,4-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichlorodifluoromethane	µg/L	2	< 2	< 2	< 2		590	
Dichloroethane,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloroethane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloroethylene,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloroethene, cis-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		1.6	
Dichloroethene, trans-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		1.6	
Dichloropropane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloropropene, cis-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5			
Dichloropropene, trans-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5			
Dichloropropene 1,3-cis+trans	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Ethylbenzene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dibromoethane,1,2- (Ethylene Dibromide)	µg/L	0.2	< 0.2	< 0.2	< 0.2		0.2	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

R.L. = Reporting Limit
Test methods may be modified from specified reference method unless indicated by an *
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:
EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

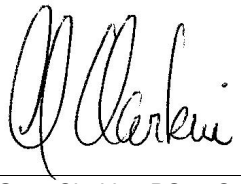
Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D. / Sample I.D. / Date Collected		MW-6 B22-17759-5 09-Jun-22	DUP 1 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7		O. Reg. 153 Tbl. 1 - GW (µg/L)	
Parameter	**Units**	**R.L.**						
Hexane	µg/L	5	< 5	< 5	< 5		5	
Methyl Ethyl Ketone	µg/L	20	< 20	< 20	< 20		400	
Methyl Isobutyl Ketone	µg/L	20	< 20	< 20	< 20		640	
Methyl-t-butyl Ether	µg/L	2	< 2	< 2	< 2		15	
Dichloromethane (Methylene Chloride)	µg/L	5	< 5	< 5	< 5		5	
Styrene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Tetrachloroethane,1,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		1.1	
Tetrachloroethane,1,1,2,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Tetrachloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Toluene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.8	
Trichloroethane,1,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Trichloroethane,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Trichloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Trichlorofluoromethane	µg/L	5	< 5	< 5	< 5		150	
Vinyl Chloride	µg/L	0.2	< 0.2	< 0.2	< 0.2		0.5	
Xylene, m,p-	µg/L	1.0	< 1.0	< 1.0	< 1.0			
Xylene, o-	µg/L	0.5	< 0.5	< 0.5	< 0.5			
Xylene, m,p,o-	µg/L	1.1	< 1.1	< 1.1	< 1.1		72	
Dibromofluoromethane (SS)	% rec.		93.9	95.9	105			
Toluene-d8 (SS)	% rec.		95.7	101	96.3			
Bromofluorobenzene,4(SS)	% rec.		98.5	103	101			
PHC F1 (C6-C10)	µg/L	25	< 25	< 25			420	
PHC F2 (>C10-C16)	µg/L	50	< 50	< 50			150	
PHC F3 (>C16-C34)	µg/L	400	< 400	< 400			500	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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C.O.C.: G110810 **REPORT No. B22-17759**

Report To:
EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
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Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D. / Sample I.D. / Date Collected		MW-6 B22-17759-5 09-Jun-22	DUP 1 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7		O. Reg. 153 Tbl. 1 - GW (µg/L)	
Parameter	**Units**	**R.L.**						
PHC F4 (>C34-C50)	µg/L	400	< 400	< 400			500	
Acenaphthene	µg/L	0.05	< 0.05	< 0.05			4.1	
Acenaphthylene	µg/L	0.05	< 0.05	< 0.05			1	
Anthracene	µg/L	0.05	< 0.05	< 0.05			0.1	
Benzo(a)anthracene	µg/L	0.05	< 0.05	< 0.05			0.2	
Benzo(a)pyrene	µg/L	0.01	< 0.01	< 0.01			0.01	
Benzo(b)fluoranthene	µg/L	0.05	< 0.05	< 0.05			0.1	
Benzo(b+k)fluoranthene	µg/L	0.1	< 0.1	< 0.1				
Benzo(g,h,i)perylene	µg/L	0.05	< 0.05	< 0.05			0.2	
Benzo(k)fluoranthene	µg/L	0.05	< 0.05	< 0.05			0.1	
Chrysene	µg/L	0.05	< 0.05	< 0.05			0.1	
Dibenzo(a,h)anthracene	µg/L	0.05	< 0.05	< 0.05			0.2	
Fluoranthene	µg/L	0.05	< 0.05	< 0.05			0.4	
Fluorene	µg/L	0.05	< 0.05	< 0.05			120	
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	< 0.05	< 0.05			0.2	
Methylnaphthalene,1-	µg/L	0.05	< 0.05	< 0.05			2	
Methylnaphthalene,2-	µg/L	0.05	< 0.05	< 0.05			2	
Methylnaphthalene 2-(1-)	µg/L	1	< 1	< 1			2	
Naphthalene	µg/L	0.05	< 0.05	< 0.05			7	
Phenanthrene	µg/L	0.05	< 0.05	< 0.05			0.1	
Pyrene	µg/L	0.05	< 0.05	< 0.05			0.2	
Terphenyl-d14 (SS)	% rec.	10	78.0	90.0				

1 . Chromium (VI) result is based on total chromium

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

R.L. = Reporting Limit
Test methods may be modified from specified reference method unless indicated by an *
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:

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Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

Summary of Exceedances

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

R.L. = Reporting Limit
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Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (i)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
pH @25°C	pH Units		SM 4500H	10-May-23/O	8.00	7.99	8.06	7.80
Conductivity @25°C	mS/cm	0.001	SM 2510B	10-May-23/O	0.84	0.622	0.849	2.22
Chloride	mg/L	0.5	SM4110C	09-May-23/O	22.8	8.4	49.2	36.9
Nitrate (N)	mg/L	0.1	SM4110C	09-May-23/O	0.9	1.8	0.2	36.3
Nitrite (N)	mg/L	0.1	SM4110C	09-May-23/O	< 0.1	< 0.1	< 0.1	< 1
Cyanide (Free)	µg/L	5	SM 4500CN	16-May-23/K	< 5	< 5	< 5	< 5
Sodium	µg/L	200	SM 3120	10-May-23/O	23400	10300	71400	88000
Antimony	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1	< 0.1	< 0.5
Arsenic	µg/L	0.1	EPA 200.8	12-May-23/O	0.1	< 0.1	0.1	< 0.5
Barium	µg/L	1	SM 3120	10-May-23/O	189	272	59	55
Beryllium	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1	< 0.1	< 0.5
Boron	µg/L	5	SM 3120	10-May-23/O	51	74	24	660
Cadmium	µg/L	0.015	EPA 200.8	12-May-23/O	< 0.015	< 0.015	< 0.015	< 0.070
Chromium	µg/L	2	SM 3120	10-May-23/O	< 2	< 2	< 2	< 2
Chromium (VI)	µg/L	10	MOE E3056	10-May-23/O	< 10 1	< 10 1	< 10 1	< 10 1
Cobalt	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	0.2	< 0.1	< 0.5
Copper	µg/L	2	SM 3120	10-May-23/O	2	2	< 2	5

Steve Garrett
Director of Laboratory Services

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Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (ii)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
PHC F1 (C6-C10)	µg/L	25	MOE E3421	09-May-23/R	< 25	< 25	< 25	< 25
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	09-May-23/K	< 50	< 50	< 50	< 50
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	09-May-23/K	< 400	< 400	< 400	< 400
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	09-May-23/K	< 400	< 400	< 400	< 400
Acetone	µg/L	30	EPA 8260	09-May-23/R	< 30	< 30	< 30	< 30
Benzene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Bromoform	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Bromomethane	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	µg/L	0.2	EPA 8260	09-May-23/R	< 0.2	< 0.2	< 0.2	< 0.2
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	µg/L	1	EPA 8260	09-May-23/R	< 1	< 1	< 1	< 1
Dibromochloromethane	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Dichlorobenzene,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorobenzene,1,3-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorobenzene,1,4-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5

Steve Garrett
Director of Laboratory Services

R.L. = Reporting Limit
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Uncertainty values available upon request

C.O.C.: G107095 **REPORT No. B23-03303 (ii)**

Report To:

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2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Dichlorodifluoromethane	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Dichloroethane,1,1-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethane,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethylene,1,1-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethene, cis-1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethene, trans-1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropane,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropene, cis-1,3-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropene, trans-1,3-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropene 1,3-cis+trans	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dibromoethane,1,2-(Ethylene Dibromide)	µg/L	0.2	EPA 8260	09-May-23/R	< 0.2	< 0.2	< 0.2	< 0.2
Hexane	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Methyl Ethyl Ketone	µg/L	20	EPA 8260	09-May-23/R	< 20	< 20	< 20	< 20
Methyl Isobutyl Ketone	µg/L	20	EPA 8260	09-May-23/R	< 20	< 20	< 20	< 20

Steve Garrett
Director of Laboratory Services

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (ii)**

Report To:

EXP Services Inc
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Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Methyl-t-butyl Ether	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Dichloromethane (Methylene Chloride)	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Styrene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethane,1,1,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethane,1,1,2,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethane,1,1,1-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethane,1,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Vinyl Chloride	µg/L	0.2	EPA 8260	09-May-23/R	< 0.2	< 0.2	< 0.2	< 0.2
Xylene, m,p-	µg/L	1.0	EPA 8260	09-May-23/R	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Xylene, m,p,o-	µg/L	1.1	EPA 8260	09-May-23/R	< 1.1	< 1.1	< 1.1	< 1.1

Steve Garrett
Director of Laboratory Services

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DATE RECEIVED: 06-May-23
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SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
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SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3	Trip Blank	Field Blank
			Sample I.D.		B23-03303-5	B23-03303-6	B23-03303-7	B23-03303-8
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
PHC F1 (C6-C10)	µg/L	25	MOE E3421	09-May-23/R	< 25	< 25		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	09-May-23/K	< 50	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	09-May-23/K	< 400	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	09-May-23/K	< 400	< 400		
Acetone	µg/L	30	EPA 8260	09-May-23/R	< 30	< 30	< 30	< 30
Benzene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Bromoform	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Bromomethane	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	µg/L	0.2	EPA 8260	09-May-23/R	< 0.2	< 0.2	< 0.2	< 0.2
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	µg/L	1	EPA 8260	09-May-23/R	< 1	< 1	< 1	< 1
Dibromochloromethane	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Dichlorobenzene,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorobenzene,1,3-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorobenzene,1,4-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5

Steve Garrett
Director of Laboratory Services

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

C.O.C.: G107095 **REPORT No. B23-03303 (ii)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3	Trip Blank	Field Blank
			Sample I.D.		B23-03303-5	B23-03303-6	B23-03303-7	B23-03303-8
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Dichlorodifluoromethane	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Dichloroethane,1,1-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethane,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethylene,1,1-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethene, cis-1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloroethene, trans-1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropane,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropene, cis-1,3-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropene, trans-1,3-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dichloropropene 1,3-cis+trans	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Dibromoethane,1,2-(Ethylene Dibromide)	µg/L	0.2	EPA 8260	09-May-23/R	< 0.2	< 0.2	< 0.2	< 0.2
Hexane	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Methyl Ethyl Ketone	µg/L	20	EPA 8260	09-May-23/R	< 20	< 20	< 20	< 20
Methyl Isobutyl Ketone	µg/L	20	EPA 8260	09-May-23/R	< 20	< 20	< 20	< 20

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

Steve Garrett
Director of Laboratory Services

CADUCEON™ ENVIRONMENTAL LABORATORIES
Client committed. Quality assured.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (ii)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3	Trip Blank	Field Blank
			Sample I.D.		B23-03303-5	B23-03303-6	B23-03303-7	B23-03303-8
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Methyl-t-butyl Ether	µg/L	2	EPA 8260	09-May-23/R	< 2	< 2	< 2	< 2
Dichloromethane (Methylene Chloride)	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Styrene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethane,1,1,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethane,1,1,2,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethane,1,1,1-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethane,1,1,2-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	5	EPA 8260	09-May-23/R	< 5	< 5	< 5	< 5
Vinyl Chloride	µg/L	0.2	EPA 8260	09-May-23/R	< 0.2	< 0.2	< 0.2	< 0.2
Xylene, m,p-	µg/L	1.0	EPA 8260	09-May-23/R	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-	µg/L	0.5	EPA 8260	09-May-23/R	< 0.5	< 0.5	< 0.5	< 0.5
Xylene, m,p,o-	µg/L	1.1	EPA 8260	09-May-23/R	< 1.1	< 1.1	< 1.1	< 1.1

Steve Garrett
Director of Laboratory Services

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Uncertainty values available upon request

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (ii)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3	Trip Blank	Field Blank
			Sample I.D.		B23-03303-5	B23-03303-6	B23-03303-7	B23-03303-8
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

Steve Garrett
Director of Laboratory Services

CADUCEON™ ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (iii)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Acenaphthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/L	0.01	EPA 8270	11-May-23/K	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	11-May-23/K	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene 2-(1-)	µg/L	1	EPA 8270	11-May-23/K	< 1	< 1	< 1	< 1

Steve Garrett
Director of Laboratory Services

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
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CADUCEON™ ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (iii)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
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Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Naphthalene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05	< 0.05	< 0.05

Steve Garrett
Director of Laboratory Services

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Final Report

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DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3		
			Sample I.D.		B23-03303-5	B23-03303-6		
			Date Collected		05-May-23	05-May-23		
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Acenaphthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	11-May-23/K	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	11-May-23/K	< 0.1	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Methylnaphthalene 2-(1-)	µg/L	1	EPA 8270	11-May-23/K	< 1	< 1		

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

Steve Garrett
Director of Laboratory Services

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (iii)**

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Attention: Chris Kimmerly

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Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3		
			Sample I.D.		B23-03303-5	B23-03303-6		
			Date Collected		05-May-23	05-May-23		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Naphthalene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	11-May-23/K	< 0.05	< 0.05		

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
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Final Report

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DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-5	MW-4	P-2	MW-6
			Sample I.D.		B23-03303-1	B23-03303-2	B23-03303-3	B23-03303-4
			Date Collected		05-May-23	05-May-23	05-May-23	05-May-23
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Lead	µg/L	0.02	EPA 200.8	12-May-23/O	0.06	0.04	0.02	< 0.1
Mercury	µg/L	0.02	SM 3112 B	11-May-23/O	< 0.02	< 0.02	< 0.02	< 0.02
Molybdenum	µg/L	0.1	EPA 200.8	12-May-23/O	1.6	1.8	2.3	2.1
Nickel	µg/L	0.2	EPA 200.8	12-May-23/O	1.0	1.4	0.5	2.7
Selenium	µg/L	1	EPA 200.8	12-May-23/O	4	< 1	< 1	< 5
Silver	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1	< 0.1	< 0.1
Thallium	µg/L	0.05	EPA 200.8	12-May-23/O	< 0.05	< 0.05	< 0.05	< 0.3
Uranium	µg/L	0.05	EPA 200.8	12-May-23/O	0.63	2.92	1.22	2.65
Vanadium	µg/L	0.1	EPA 200.8	12-May-23/O	0.4	< 0.1	0.4	< 0.5
Zinc	µg/L	5	SM 3120	10-May-23/O	< 5	< 5	< 5	< 5

1 . Chromium (VI) result is based on total Chromium

Steve Garrett
Director of Laboratory Services

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

CADUCEON™ ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (i)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3		
			Sample I.D.		B23-03303-5	B23-03303-6		
			Date Collected		05-May-23	05-May-23		
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
pH @25°C	pH Units		SM 4500H	10-May-23/O	8.11	8.01		
Conductivity @25°C	mS/cm	0.001	SM 2510B	10-May-23/O	0.566	0.849		
Chloride	mg/L	0.5	SM4110C	09-May-23/O	23.0	23.3		
Nitrate (N)	mg/L	0.1	SM4110C	09-May-23/O	1.0	0.8		
Nitrite (N)	mg/L	0.1	SM4110C	09-May-23/O	< 0.1	< 0.1		
Cyanide (Free)	µg/L	5	SM 4500CN	16-May-23/K	< 5	< 5		
Sodium	µg/L	200	SM 3120	10-May-23/O	19700	23100		
Antimony	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1		
Arsenic	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	0.1		
Barium	µg/L	1	SM 3120	10-May-23/O	239	167		
Beryllium	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1		
Boron	µg/L	5	SM 3120	10-May-23/O	119	52		
Cadmium	µg/L	0.015	EPA 200.8	12-May-23/O	< 0.015	< 0.015		
Chromium	µg/L	2	SM 3120	10-May-23/O	< 2	< 2		
Chromium (VI)	µg/L	10	MOE E3056	10-May-23/O	< 10 [1]	< 10 [1]		
Cobalt	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1		
Copper	µg/L	2	SM 3120	10-May-23/O	< 2	< 2		

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

Steve Garrett
Director of Laboratory Services

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G107095 **REPORT No. B23-03303 (i)**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 06-May-23
DATE REPORTED: 16-May-23
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		MW-3	P-3		
			Sample I.D.		B23-03303-5	B23-03303-6		
			Date Collected		05-May-23	05-May-23		
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Lead	µg/L	0.02	EPA 200.8	12-May-23/O	0.05	< 0.02		
Mercury	µg/L	0.02	SM 3112 B	11-May-23/O	< 0.02	< 0.02		
Molybdenum	µg/L	0.1	EPA 200.8	12-May-23/O	1.9	1.7		
Nickel	µg/L	0.2	EPA 200.8	12-May-23/O	0.3	0.9		
Selenium	µg/L	1	EPA 200.8	12-May-23/O	< 1	4		
Silver	µg/L	0.1	EPA 200.8	12-May-23/O	< 0.1	< 0.1		
Thallium	µg/L	0.05	EPA 200.8	12-May-23/O	< 0.05	< 0.05		
Uranium	µg/L	0.05	EPA 200.8	12-May-23/O	0.36	0.64		
Vanadium	µg/L	0.1	EPA 200.8	12-May-23/O	0.2	0.4		
Zinc	µg/L	5	SM 3120	10-May-23/O	< 5	< 5		

1 . Chromium (VI) result is based on total Chromium

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

R.L. = Reporting Limit
Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie
Uncertainty values available upon request

Steve Garrett
Director of Laboratory Services

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

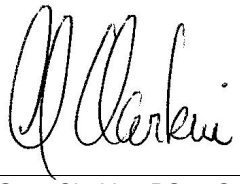
JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
Cyanide	6	Kingston	kwe	15-Jun-22	A-CN-001 (k)	SM 4500CN
Conductivity	6	Holly Lane	SYL	13-Jun-22	A-COND-02 (o)	SM 2510B
Anions	6	Holly Lane	VK	14-Jun-22	A-IC-01 (o)	SM4110C
pH	6	Holly Lane	SYL	13-Jun-22	A-PH-01 (o)	SM 4500H
SVOC	6	Kingston	esi	14-Jun-22	C-NAB-S-001 (k)	EPA 8270
SVOC	6	Kingston	esi	14-Jun-22	C-NAB-W-001 (k)	EPA 8270
PHC(F2-F4)	6	Kingston	KPR	13-Jun-22	C-PHC-W-001 (k)	MOE E3421
VOC's	7	Richmond Hill	FAL	13-Jun-22	C-VOC-02 (rh)	EPA 8260
PHC(F1)	6	Richmond Hill	FAL	13-Jun-22	C-VPHW-01 (rh)	MOE E3421
Chromium (VI)	6	Holly Lane	ST	15-Jun-22	D-CRVI-01 (o)	MOE E3056
Mercury	6	Holly Lane	PBK	15-Jun-22	D-HG-02 (o)	SM 3112 B
Metals - ICP-OES	6	Holly Lane	AHM	14-Jun-22	D-ICP-01 (o)	SM 3120
Metals - ICP-MS	6	Holly Lane	TPR	16-Jun-22	D-ICPMS-01 (o)	EPA 200.8

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:
EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

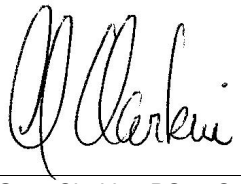
Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
pH @25°C	pH Units		7.70	8.03	7.84	7.98		
Conductivity @25°C	µmho/cm	1	1070	646	618	722		
Chloride	µg/L	500	51000	20500	18100	25400	790000	
Cyanide (Free)	µg/L	5	< 5	< 5	< 5	< 5	5	
Antimony	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.5	
Arsenic	µg/L	0.1	0.1	< 0.1	0.2	0.2	13	
Barium	µg/L	1	106	259	361	178	610	
Beryllium	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5	
Boron	µg/L	5	22	59	34	39	1700	
Cadmium	µg/L	0.015	< 0.015	< 0.015	0.022	< 0.015	0.5	
Chromium	µg/L	2	< 2	< 2	< 2	< 2	11	
Chromium (VI)	µg/L	10	< 10 [1]	< 10 [1]	< 10 [1]	< 10 [1]	25	
Cobalt	µg/L	0.1	< 0.1	< 0.1	1.4	0.9	3.8	
Copper	µg/L	2	< 2	< 2	< 2	2	5	
Lead	µg/L	0.02	< 0.02	< 0.02	< 0.02	0.03	1.9	
Mercury	µg/L	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1	
Molybdenum	µg/L	0.1	1.9	1.5	3.2	3.6	23	
Nickel	µg/L	0.2	0.7	0.3	2.0	1.9	14	
Selenium	µg/L	1	< 1	< 1	< 1	2	5	
Silver	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	
Sodium	µg/L	200	85000	20000	10900	22500	490000	
Thallium	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.5	
Uranium	µg/L	0.05	1.01	0.56	4.18	0.60	8.9	
Vanadium	µg/L	0.1	0.2	0.2	< 0.1	0.5	3.9	
Zinc	µg/L	5	< 5	< 5	< 5	< 5	160	
Acetone	µg/L	30	< 30	< 30	< 30	< 30	2700	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

R.L. = Reporting Limit
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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:

EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
Benzene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Bromodichloromethane	µg/L	2	< 2	< 2	< 2	< 2	2	
Bromoform	µg/L	5	< 5	< 5	< 5	< 5	5	
Bromomethane	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.89	
Carbon Tetrachloride	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.2	
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Chloroform	µg/L	1	< 1	< 1	< 1	< 1	2	
Dibromochloromethane	µg/L	2	< 2	< 2	< 2	< 2	2	
Dichlorobenzene,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichlorobenzene,1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichlorobenzene,1,4-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichlorodifluoromethane	µg/L	2	< 2	< 2	< 2	< 2	590	
Dichloroethane,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloroethane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloroethylene,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloroethene, cis-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	
Dichloroethene, trans-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	
Dichloropropane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dichloropropene, cis-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Dichloropropene, trans-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Dichloropropene 1,3-cis+trans	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Ethylbenzene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Dibromoethane,1,2- (Ethylene Dibromide)	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.2	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

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Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

CERTIFICATE OF ANALYSIS

Final Report

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DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
Hexane	µg/L	5	< 5	< 5	< 5	< 5	5	
Methyl Ethyl Ketone	µg/L	20	< 20	< 20	< 20	< 20	400	
Methyl Isobutyl Ketone	µg/L	20	< 20	< 20	< 20	< 20	640	
Methyl-t-butyl Ether	µg/L	2	< 2	< 2	< 2	< 2	15	
Dichloromethane (Methylene Chloride)	µg/L	5	< 5	< 5	< 5	< 5	5	
Styrene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Tetrachloroethane,1,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	
Tetrachloroethane,1,1,2,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Tetrachloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Toluene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	
Trichloroethane,1,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Trichloroethane,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Trichloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Trichlorofluoromethane	µg/L	5	< 5	< 5	< 5	< 5	150	
Vinyl Chloride	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.5	
Xylene, m,p-	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Xylene, o-	µg/L	0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Xylene, m,p,o-	µg/L	1.1	< 1.1	< 1.1	< 1.1	< 1.1	72	
Dibromofluoromethane (SS)	% rec.		91.5	104	94.0	95.8		
Toluene-d8 (SS)	% rec.		93.0	95.3	95.4	94.8		
Bromofluorobenzene,4(SS)	% rec.		100	99.1	98.5	98.6		
PHC F1 (C6-C10)	µg/L	25	< 25	< 25	< 25	< 25	420	
PHC F2 (>C10-C16)	µg/L	50	< 50	< 50	< 50	< 50	150	
PHC F3 (>C16-C34)	µg/L	400	< 400	< 400	< 400	< 400	500	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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DATE RECEIVED: 09-Jun-22
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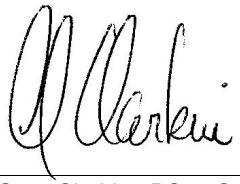
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg. 153	
	Sample I.D.		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Collected		09-Jun-22	09-Jun-22	09-Jun-22	09-Jun-22	(µg/L)	
Parameter	**Units**	**R.L.**						
PHC F4 (>C34-C50)	µg/L	400	< 400	< 400	< 400	< 400	500	
Acenaphthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	4.1	
Acenaphthylene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	1	
Anthracene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Benzo(a)anthracene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Benzo(a)pyrene	µg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	
Benzo(b)fluoranthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Benzo(b+k)fluoranthene	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Benzo(k)fluoranthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Chrysene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Dibenzo(a,h)anthracene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Fluoranthene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.4	
Fluorene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	120	
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Methylnaphthalene,1-	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	2	
Methylnaphthalene,2-	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	2	
Methylnaphthalene 2-(1-)	µg/L	1	< 1	< 1	< 1	< 1	2	
Naphthalene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	7	
Phenanthrene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	
Pyrene	µg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2	
Terphenyl-d14 (SS)	% rec.	10	84.0	83.0	88.0	89.0		

1 . Chromium (VI) result is based on total chromium

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



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Lab Manager - Ottawa District

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CADUCEON™ ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810 **REPORT No. B22-17759**

Report To:
EXP Services Inc
2650 Queensview Drive, Suite 100
Ottawa ON K2B 8H6 Canada
Attention: Chris Kimmerly

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22
DATE REPORTED: 16-Jun-22
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D. / Sample I.D. / Date Collected		MW-6 B22-17759-5 09-Jun-22	DUP 1 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7		O. Reg. 153 Tbl. 1 - GW (µg/L)	
Parameter	**Units**	**R.L.**						
pH @25°C	pH Units		8.02	8.07				
Conductivity @25°C	µmho/cm	1	934	644				
Chloride	µg/L	500	23300	20700			790000	
Cyanide (Free)	µg/L	5	< 5	< 5			5	
Antimony	µg/L	0.1	0.1	< 0.1			1.5	
Arsenic	µg/L	0.1	0.1	< 0.1			13	
Barium	µg/L	1	137	257			610	
Beryllium	µg/L	0.1	< 0.1	< 0.1			0.5	
Boron	µg/L	5	105	57			1700	
Cadmium	µg/L	0.015	< 0.015	< 0.015			0.5	
Chromium	µg/L	2	< 2	< 2			11	
Chromium (VI)	µg/L	10	< 10 [1]	< 10 [1]			25	
Cobalt	µg/L	0.1	0.7	< 0.1			3.8	
Copper	µg/L	2	2	< 2			5	
Lead	µg/L	0.02	0.02	< 0.02			1.9	
Mercury	µg/L	0.02	< 0.02	< 0.02			0.1	
Molybdenum	µg/L	0.1	4.2	1.4			23	
Nickel	µg/L	0.2	1.6	0.3			14	
Selenium	µg/L	1	4	< 1			5	
Silver	µg/L	0.1	< 0.1	< 0.1			0.3	
Sodium	µg/L	200	25300	20000			490000	
Thallium	µg/L	0.05	< 0.05	< 0.05			0.5	
Uranium	µg/L	0.05	1.09	0.56			8.9	
Vanadium	µg/L	0.1	0.2	0.2			3.9	
Zinc	µg/L	5	< 5	< 5			160	
Acetone	µg/L	30	< 30	< 30	< 30		2700	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: OTT-21023795-AO
P.O. NUMBER:
WATERWORKS NO.

	Client I.D.		MW-6	DUP 1	Trip Blank		O. Reg. 153 Tbl. 1 - GW (µg/L)	
	Sample I.D.		B22-17759-5	B22-17759-6	B22-17759-7			
	Date Collected		09-Jun-22	09-Jun-22				
Parameter	**Units**	**R.L.**						
Benzene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Bromodichloromethane	µg/L	2	< 2	< 2	< 2		2	
Bromoform	µg/L	5	< 5	< 5	< 5		5	
Bromomethane	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.89	
Carbon Tetrachloride	µg/L	0.2	< 0.2	< 0.2	< 0.2		0.2	
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Chloroform	µg/L	1	< 1	< 1	< 1		2	
Dibromochloromethane	µg/L	2	< 2	< 2	< 2		2	
Dichlorobenzene,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichlorobenzene,1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichlorobenzene,1,4-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichlorodifluoromethane	µg/L	2	< 2	< 2	< 2		590	
Dichloroethane,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloroethane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloroethylene,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloroethene, cis-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		1.6	
Dichloroethene, trans-1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		1.6	
Dichloropropane,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dichloropropene, cis-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5			
Dichloropropene, trans-1,3-	µg/L	0.5	< 0.5	< 0.5	< 0.5			
Dichloropropene 1,3-cis+trans	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Ethylbenzene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Dibromoethane,1,2- (Ethylene Dibromide)	µg/L	0.2	< 0.2	< 0.2	< 0.2		0.2	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

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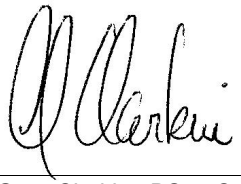
	Client I.D. / Sample I.D. / Date Collected		MW-6 B22-17759-5 09-Jun-22	DUP 1 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7		O. Reg. 153 Tbl. 1 - GW (µg/L)	
Parameter	**Units**	**R.L.**						
Hexane	µg/L	5	< 5	< 5	< 5		5	
Methyl Ethyl Ketone	µg/L	20	< 20	< 20	< 20		400	
Methyl Isobutyl Ketone	µg/L	20	< 20	< 20	< 20		640	
Methyl-t-butyl Ether	µg/L	2	< 2	< 2	< 2		15	
Dichloromethane (Methylene Chloride)	µg/L	5	< 5	< 5	< 5		5	
Styrene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Tetrachloroethane,1,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		1.1	
Tetrachloroethane,1,1,2,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Tetrachloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Toluene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.8	
Trichloroethane,1,1,1-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Trichloroethane,1,1,2-	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Trichloroethylene	µg/L	0.5	< 0.5	< 0.5	< 0.5		0.5	
Trichlorofluoromethane	µg/L	5	< 5	< 5	< 5		150	
Vinyl Chloride	µg/L	0.2	< 0.2	< 0.2	< 0.2		0.5	
Xylene, m,p-	µg/L	1.0	< 1.0	< 1.0	< 1.0			
Xylene, o-	µg/L	0.5	< 0.5	< 0.5	< 0.5			
Xylene, m,p,o-	µg/L	1.1	< 1.1	< 1.1	< 1.1		72	
Dibromofluoromethane (SS)	% rec.		93.9	95.9	105			
Toluene-d8 (SS)	% rec.		95.7	101	96.3			
Bromofluorobenzene,4(SS)	% rec.		98.5	103	101			
PHC F1 (C6-C10)	µg/L	25	< 25	< 25			420	
PHC F2 (>C10-C16)	µg/L	50	< 50	< 50			150	
PHC F3 (>C16-C34)	µg/L	400	< 400	< 400			500	

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water



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	Client I.D. / Sample I.D. / Date Collected		MW-6 B22-17759-5 09-Jun-22	DUP 1 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7		O. Reg. 153 Tbl. 1 - GW (µg/L)	
Parameter	**Units**	**R.L.**						
PHC F4 (>C34-C50)	µg/L	400	< 400	< 400			500	
Acenaphthene	µg/L	0.05	< 0.05	< 0.05			4.1	
Acenaphthylene	µg/L	0.05	< 0.05	< 0.05			1	
Anthracene	µg/L	0.05	< 0.05	< 0.05			0.1	
Benzo(a)anthracene	µg/L	0.05	< 0.05	< 0.05			0.2	
Benzo(a)pyrene	µg/L	0.01	< 0.01	< 0.01			0.01	
Benzo(b)fluoranthene	µg/L	0.05	< 0.05	< 0.05			0.1	
Benzo(b+k)fluoranthene	µg/L	0.1	< 0.1	< 0.1				
Benzo(g,h,i)perylene	µg/L	0.05	< 0.05	< 0.05			0.2	
Benzo(k)fluoranthene	µg/L	0.05	< 0.05	< 0.05			0.1	
Chrysene	µg/L	0.05	< 0.05	< 0.05			0.1	
Dibenzo(a,h)anthracene	µg/L	0.05	< 0.05	< 0.05			0.2	
Fluoranthene	µg/L	0.05	< 0.05	< 0.05			0.4	
Fluorene	µg/L	0.05	< 0.05	< 0.05			120	
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	< 0.05	< 0.05			0.2	
Methylnaphthalene,1-	µg/L	0.05	< 0.05	< 0.05			2	
Methylnaphthalene,2-	µg/L	0.05	< 0.05	< 0.05			2	
Methylnaphthalene 2-(1-)	µg/L	1	< 1	< 1			2	
Naphthalene	µg/L	0.05	< 0.05	< 0.05			7	
Phenanthrene	µg/L	0.05	< 0.05	< 0.05			0.1	
Pyrene	µg/L	0.05	< 0.05	< 0.05			0.2	
Terphenyl-d14 (SS)	% rec.	10	78.0	90.0				

1 . Chromium (VI) result is based on total chromium

O. Reg. 153 - Soil, Ground Water and Sediment Standards
Tbl. 1 - GW (µg/L) - Table 1 - Ground Water

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Summary of Exceedances

O. Reg. 153 - Soil, Ground Water and Sediment Standards
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Appendix I: Site Photographs

Photograph No. 1:

View of the Phase One property looking east.

Photograph No. 2: View of the soil decanting area (Area A).

Photograph No. 3

View of P1- and P-2 at the south end of the Site.

Photograph No. 4

View of the AST inside the shipping container.

Photograph No. 5

View of the fuel storage area beside the shipping container.

Photograph No. 6

View of the site from the driveway, looking south.