

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

Client:

GFL Environmental Services Inc 2705 Stevenage Drive Ottawa, Ontario

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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.



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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



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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 semiannual 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.



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Location	Proximity to	Wastes Generated	Environmental Concern to Site
(Generator)	the 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 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.



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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-andminerals/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.



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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



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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.



8.0 References

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- Natural Resources Canada, The Atlas of Canada Toporama website (atlas.gc.ca/toporama/en/)
- Rideau Valley Conservation Authority, RVCA Regulations Mapping (<u>https://rvcagis.maps.arcgis.com</u>)



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 reevaluation. 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 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.

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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

G This Ka G 1 Chris Kimmerly, P.Geo. Christopher Thomas Kimm Senior Project Manager PRACTISING MEMBE Ĉ. Earth and Environment



Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix A: Qualifications of Assessors



Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

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.



Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix B: Figures










EXP Services Inc.

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix C: Survey







	Denotes	
-0-	11	Survey Monument Planted
		Survey Monument Found
SIB	11	Standard Iron Bar
SSIB	11	Short Standard Iron Bar
(Wit)	11	Witness
Meas	п	Measured
(P1)		Plan 5R-11776
(P2)	0	Plan 5R-14496
(P3)	н	Plan 4R-8323
(P4)	н	Plan 4R-7975
онw	11	Overhead Wires
OUP		Utility Pole
O AN	n	Anchor
P&W	0	Post and Wire Fence
El	u u	Elevation



								SCALE 0 5m 10m 20m HORIZONTAL 1:500	DESIGNED BY	REVIEWED BY	CLIENT 3
								NORTH			**€
			1	ISSUED FOR REVIEW	24/05/22	AJ	AA				
DATE	BY	APPD	REV	REVISION DESCRIPTION	DATE	BY	APPD	,			



	<u>LEGEND</u>
	PROPERTY LINE SETBACK AS PER PROPOSED ZONING PROVIS
· · · · · · · · · · · · · · · · · · ·	GRAVEL ACCESS ROAD
	NEW GATE
XX	EXISTING CHAIN LINK FENCE
xx	NEW CHAIN LINK FENCE

EXP Services Inc.

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

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 (<u>kathy.radisch@exp.com</u>) 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)

EXP Services Inc.

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix E: EcoLog ERIS Report





DATABASE REPORT

Project Property:

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

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Executive Summary

Property Information:

Project Property:

Project No:

Phase I ESA 4380 Trail Road Richmond ON K0A 2Z0

OTT-21023795-A0_1200_C.Kimmerly

Order Information:

Order No: Date Requested: Requested by: Report Type: 22050200589 May 2, 2022 exp Services Inc. 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
СНМ	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	Y	0	0	0
NCPL	(NATES) 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	Y	0	0	0
NEBI	Sites National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Ŷ	0	0	0
NEES	National Environmental Emergencies System (NEES)	Ŷ	0	0	0
NPCB	National PCB Inventory	Ŷ	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 Washe Dianaged Sites - MOS CA Inventory	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

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Executive Summary: Site Report Summary - Project Property

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

Executive Summary: Site Report Summary - Surrounding Properties

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

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

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

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

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

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	<u>Distance (m)</u>	<u>Map Key</u>
	ON	31.1	<u>6</u>

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

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.

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

12

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

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

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	<u>Distance (m)</u>	<u>Map Key</u>
	4420 Trailroad Ottawa ON	200.2	<u>11</u>

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.

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

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

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 lot 8 con 4 ON	<u>Distance (m)</u> 12.8	<u>Map Key</u> <u>2</u>
	Well ID: 1526000		
	lot 8 con 4 ON	13.7	<u>3</u>
	Well ID: 1527680		
	lot 8 con 4 ON	13.7	<u>3</u>
	Well ID: 1527679		

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

Address Well ID: 7176399 <u>Distance (m)</u>

<u>Map Key</u>

lot 8 con 4 ON

Well ID: 1517287

242.9

15



Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership



Aerial Year: 2021

Address: 4380 Trail Road, Richmond, ON

Source: ESRI World Imagery

45°13'30"N

Order Number: 22050200589



© ERIS Information Limited Partnership



Topographic Map

Order Number: 22050200589



Address: 4380 Trail Road, ON

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Мар Кеу	Numbei Record		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 Ottaw ON	ra, ON Canada EBR
EBR Registry Ministry Ref Notice Type: Notice Stage Notice Date: Proposal Dat Year: Instrument Ty Off Instrumen Posted By: Company Na Site Address Location Oth Proponent Na Proponent Ad Comment Per URL:	No: te: ype: nt Name: me: er: ame: ddress:	E M 4 D F	2021 nvironmental Com nvironmental Com linistry of the Envir 380 Trail Road Ott prain-All Ltd. prain-All Ltd. 3385 ebruary 1, 2021 -	ronment, Conserva	waste) (EPA s.27) ation and Parks Napanee Ottawa, ON K1G 4 5 days) Open	Part II.1 (20.3 or 20.5) Environmental Protection Act, R.S.O. 1990 Environmental Protection Act 45.23078,-75.76805

Site Location Details:

<u>2</u>	1 of 1	I	ESE/12.8	104.8 / -0.66	lot 8 con 4 ON		WWIS
Well ID:		1526000			Data Entry Status:		
Construct	tion Date:				Data Src:	1	
Primary V	/ater Use:				Date Received:	1/13/1992	
Sec. Wate	r Use:				Selected Flag:	TRUE	
Final Well	Status:				Abandonment Rec:		
Water Typ	e:				Contractor:	1558	
Casing Ma	aterial:				Form Version:	1	
Audit No:		102764			Owner:		
Tag:					Street Name:		
Construct	tion Method:				County:	OTTAWA	
Elevation	(m):				Municipality:	NEPEAN TOWNSHIP	
Elevation	Reliability:				Site Info:		
Depth to l	Bedrock:				Lot:	008	
Well Dept	h:				Concession:	04	
Overburd	en/Bedrock:				Concession Name:	RF	
Pump Rat	e:				Easting NAD83:		
Static Wa	ter Level:				Northing NAD83:		
Flowing (Y/N):				Zone:		
Flow Rate	:				UTM Reliability:		
Clear/Clo	udy:				-		

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 Depth (m): 1991 Depth (m): 1991 Landace: -75.7661066335866 Path: 152/1526000.pdf Bore Hole (D): 10047735 DP2BR: Zone E DP2BR: Zone: DP2BR: DP380500 Open Hole: UTMRC: Open Hole: UTMRC: Date Completed: 13-Nov-1991 00:00:00 UTMRC: Source Revision: Horarce: Juniary Source Revision: Source Revision: Do Horarce: Source Revision: Horarce: Source Revision: Dig Dor: 10.5 Plug Dor: <th>Мар Кеу</th> <th>Number Records</th> <th></th> <th>Direction/ Distance (m)</th> <th>Elev/Diff (m)</th> <th>Site</th> <th></th> <th>DB</th>	Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Year Completed: 1991 Latitude: 45.2305180497.046 Latitude: 45.2305180497.046 Latitude: 45.2305180497.046 Latitude: 152115260000.pdf Bore Hole Information Elevric: Bore Hole Information Elevric: Spatial Status: Zone: 18 Code OB: Xone: 18 Spatial Status: Concerce 18 Code OB Dese: North&2: 500884.00 Open Hole: Org C3: 500884.00 Open Hole: UTIMRC Dese: 9 Date Completed: 13-Nov-1991 00:00:00 Org C3: Bare Revision Comment: Source Date: UTIMRC Dese: 0 Location Source Date: Improvement Location Source: Inforvement: Location Method: Idit Source Revision Comment: Source: Source: 1 Idit Layer: 1 1 Idit Idit Idit Plug For: 1 1 Idit Idit Idit Idit Source Revision Comment: Source Instruction A Well	Well Comple	ted Date:		1991/11/13				
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Longitude::::::::::::::::::::::::::::::::::::	Depth (m):							
Parth: 152/1526000.pdf Bore Hole Information Bore Hole Information Bore Hole Information Bore Relation: Spatial Status: Code OB Code OB Desc: Open Hole: Code OB Elevation: Bate Complete: Open Hole: Code OB Desc: Open Hole: Code OB Code: Dete Complete: Date Complete: Date Complete: Instruction Source Date: Improvement Location Method: Source Revision: Supplet Comment: Supplet Comment: Supplet Comment: Supplet Comment: Plug For: 1 Plug For: 1 Plug For: 1 Plug For: 1 Plug Port: 1 Plug Port: 1 Plug Port: 1 Plug Port: 1 Plug Dopt UM: th Method Construction Code: 2 Method Construction: Rotary (Convent.)								
Bare Hole Information Bare Hole ID: 10047735 Elevation: Spatial Status: 2000: 15 Spatial Status: 2000: 15 Spatial Status: 2000: 10 Construction 00 0000 MD (C: 00 Own Mohr: 0000 MD (C: 00 0000 MD (C: 00 Construction Discoment: Survere Revision Comment: Location Method: 101 Saling Record 9000 MD (C: 00 100 100 Plog To: 303111484 Location Survere 100 Plog To: 0.0 9000 MD (C: 100 Plog To: 0.0 115.0 100 Plog To: 10598305 2000 100 Bethod Construction Code: 2 100 100 Plog Io: 10598305 200 100 Comment: 100 100					6			
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Code OB: East82: 43981-70 Open Hole: S000844.00 Open Hole: Org CS: Cluster Kind: 9 Date Completed: 13-Nov-1991 00:00:00 WITRC: 9 Date Completed: 13-Nov-1991 00:00:00 UTMRC: 9 UTMRC: 9 UTMRC: 9 UTMRC: 9 UTMRC: 9 UTMRC: 9 Source Date: unknown UTM Improvement Location Source: Improvement Location Method: Source Revision Comment: Source Revision Comment: Suppler Comment: 933111484 Layer: 1. Plug For: 1.0 Plug For: 1.0 Plug Port: 961528000 Method Construction ID: 961528000 Method Construction: Rotary (Convent.) Other Method Construction: Rotary (Convent.) Other Method Construction: 1 Source Casing Nor: 1 Open Site Date Entry Status: Quint ID: 1526196		2	1004773	35				
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Ciuster Kind: Date Complete Barte Complete Ever Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Source Revision Comment: Source Revision Comment: Sauplier Comment: Sauplier Comment: Manular Space/Abandonment Sealing Record Plug ID: 933111484 Layer: 1 Plug Fom: 0.0 Plug To: 115.0 Plug Fom: 0.0 Plug To: 115.0 Plug Depth UOM: tt Method Construction & Well. Use Method Construction ID: 961526000 Method Construction ID: 961526000 Method Construction Code: 2 Method Construction ID: 961526000 Method Construction: 10 Data Src: 1 Data Src: 1 Data Src: 1 Data Src: 1 Data Src: 1 Data Src: 1 Data Received: 6/2/1992 Selected Flag: TRUE Selected Flag: Street Name: Selected Selected Selected Selecter Selecter Selecter Selecter Selecter	Code OB Des	sc:				North83:	5008844.00	
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Elevic Desc: Location Source Date: Improvement Location Method: Source Revision Comment: Supplier Comment: Supplier Comment: Annular Space/Abandonment. Sealing Record Plug ID: 933111484 Layer: 1 1 Plug Fron: 0.0 Plug To: 115.0 Plug Depth UOM: ft Method Construction & Well Use Method Construction & Well Use Method Construction ID: 961526000 Method Construction ID: 961526000 Method Construction Reveal Depth UOM: ft Method Construction Reveal Elpe Information Plug ID: 10596305 Casing No: 1 Construction Date: Plug ID: 1526196 Construction Date: Primary Water Use: Domestic Date Selected Flag: TRUE Primary Water Use: Domestic Date Selected Flag: TRUE Primary Water Use: Domestic Contractor: 1558 Casing Material: Form Version: 1 Material: Form Version: 1 Audi No: 113371 Owner: Street Name:	Date Comple	eted:	13-Nov-	1991 00:00:00		UTMRC Desc:	unknown UTM	
Location Source Date: Improvement Location Source: Improvement Location Source: Improvement Location Source: Supplier Comment: Supplier Comment: Supplier Comment: Plug ID: 933111484 Layer: 1 Plug Fon: 0.0 Plug To: 115.0 Plug Depth UOM: ft Method of Construction & Well Use Method Construction Code: 2 Method Construction Code: 2 Method Construction: Rotary (Convent.) Other Method Construction: Rotary (Convent.) Other Method Construction: Rotary (Convent.) Plug ID: 10596305 Casing No: 1 Method Construction Date: Data Since: 1 Plug ID: 1526196 Construction Date: Data Since: 1 Primary Water Use: Domestic Selected Flag: TRUE Final Well Status: Water Supply Abandonment Rec: Water Type: Contractor: 1 Plag IN: 1538 Construction: Since: 1 Primary Water Use: Contractor: 1 Primary Water Supply Abandonment Rec: Final Well Status: Water Supply Abandonment Rec: Contractor: 1 Street Name: 1 Matho: 113371 Owner: 1 Audit No: 113371 Owner: 1 Audit No: 113371 Owner: 1 Audit No: 113371 Contractor: 1 Contractor: 1 Street Name: 1 Contractor: 1 Contractor: 1 Street Name: 1 Contractor: 1 Contractor: 1 Street Name: 1 Contractor: 1 Contractor: 1 Contractor: 1 Contractor: 1 Contractor: 1 Contractor: 1 Contractor: 1 Street Name: 1 Contractor: 1 Contractor	Remarks:					Location Method:	lot	
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Supplier Comment: Annular Space/Abandonment. Sealing Record Plug ID: 933111484 Layer: 1 Plug From: 0.0 Plug To: 115.0 Plug Depth UOM: t Method of Construction & Well. Use 961526000 Method Construction Code: 2 Method Construction: Rotary (Convent.) Other Method Construction: Rotary (Convent.) Other Method Construction: 10596305 Casing No: 1 Construction Date: Domestic Primary Water Use: Domestic Construction Date: Selected Flag: Primary Water Use: Domestic Final Well Status: Water Supply Abandonment Rec: Contractor: Well Wil Status: Water Supply Abandonment Rec: Contractor: Casing Material: Form Version: Fund Well Status: Water Supply Abandonment Rec: Contractor: Casing Material: Form Version: Audit No: 113371 Owr	Improvement Improvement	t Location S t Location I	Method:					
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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: Rotary (Convent.) Other Method Construction: 10596305 Casing No: 1 Comment: Alt Name: 3 1 of 3 ESE/13.7 104.8/-0.66 lot 8 con 4 ON ON Well ID: 1526196 Primary Water Use: Domestic Primary Water Use: Domestic Primary Water Use: Contractor: Final Well Status: Water Supply Abandonment Rec: TRUE Final Well Status: Water Supply Abandonment Rec: TSS Casing Material: Form Version: 113371 Owmer:								
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Construction Date:Data Src:1Primary Water Use:DomesticDate Received:6/2/1992Sec. Water Use:Selected Flag:TRUEFinal Well Status:Water SupplyAbandonment Rec:Water Type:Contractor:1558Casing Material:Form Version:1Audit No:113371Owner:Tag:Street Name:	Well ID:		1526196	3		Data Entry Status:		
Sec. Water Use:Selected Flag:TRUEFinal Well Status:Water SupplyAbandonment Rec:Water Type:Contractor:1558Casing Material:Form Version:1Audit No:113371Owner:Tag:Street Name:			Domesti	c		Data Src:		
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Water Type: Contractor: 1558 Casing Material: Form Version: 1 Audit No: 113371 Owner: Tag: Street Name:			Water S	upply		•		
Casing Material: Form Version: 1 Audit No: 113371 Owner: Tag: Street Name:							1558	
Audit No: 113371 Owner: Tag: Street Name:		rial:						
Tag: Street Name:			113371					
		Method:					OTTAWA	

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	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DI
Elevation (m): Elevation Reliat Depth to Bedroo Well Depth: Overburden/Bed Pump Rate: Static Water Lev Flowing (Y/N): Flow Rate: Clear/Cloudy:	ck: drock:			Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	NEPEAN TOWNSHIP 008 04	
PDF URL (Map):	:	https://d2khazk8e83	rdv.cloudfront.ne	et/moe_mapping/downloads	s/2Water/Wells_pdfs/152\1526196.pdf	
Additional Deta	<u>il(s) (Map)</u>					
Well Completed Year Completed Depth (m): Latitude: Longitude: Path: Bore Hole Inform	d:	1992/04/27 1992 23.1648 45.2305090490084 -75.7661064626734 152\1526196.pdf				
Bore Hole ID:	100479	026		Elevation:		
DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed Remarks: Elevrc Desc: Location Source Improvement Lo Source Revissio Supplier Comm	d: 27-Apr- e Date: ocation Source: ocation Method: n Comment:	-1992 00:00:00		Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439861.70 5008843.00 9 unknown UTM lot	
<u>Overburden and</u> <u>Materials Interva</u>						
Formation ID: Layer: Color: General Color: Mat1: Most Common I Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation End I Formation End I	Depth: Depth:	931063509 3 2 GREY 11 GRAVEL 13 BOULDERS 65.0 76.0 ft				
<u>Overburden and</u> <u>Materials Interv</u>						
Formation ID: Layer:		931063507 1				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		6			
General Colo	or:	BROWN			
Mat1: Most Commo	n Matorial:	28 SAND			
Mat2:	Jii Waleriai.	SAND			
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To		0.0			
Formation El Formation El	nd Depth: nd Depth UOM:	20.0 ft			
<u>Overburden a</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID):	931063508			
Layer:		2			
Color:		2			
General Colo	or:	GREY			
Mat1:	•• · · ·	28			
Most Commo Mat2:	on Material:	SAND			
Matz: Mat2 Desc:		13 BOULDERS			
Mat2 Desc. Mat3:		DOOLDEIKO			
Mat3 Desc:					
Formation To	op Depth:	20.0			
Formation E		65.0			
Formation E	nd Depth UOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:	961526196			
	struction Code:	5			
Method Cons		Air Percussion			
Other Metho	d Construction:				
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID:		10596496			
Casing No:		1			
Comment: Alt Name:					
<u>Construction</u>	n Record - Casing				
Casing ID:		930083899			
Layer:		2			
Material:					
Open Hole of		OPEN HOLE			
Depth From: Depth To:		76.0			
Casing Diam	eter:	6.0			
Casing Diam	eter UOM:	inch			
Casing Dept	h UOM:	ft			
<u>Construction</u>	n Record - Casing				
Casing ID:		930083898			
Layer:		1			
Material:		1			
Open Hole of	r Material:	STEEL			

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Depth To: 75.0 Casing Diamotor UOM: nch Casing Diamotor UOM: nch Results of Well Yeld Testing 991520196 Pump Tost D: 991520196 Pump Stat: 10.0 Static Laveis 10.0 Recommended Pump Depth: 40.0 Pumping Rate: 60.0 Recommended Pump Data: 5.0 Recommended Pump Tata: 5.0 Recommended Pump Tata: 6.0 Recommended Pump Tata: 1.0 Pumping Rate: Recommended Pump Tata: Recommended Pump Tata: 1.0 Pumping Tata: 1.0 Pump Tata: 1.0 Pump Tata: 1.0 Pump Tata: 1.0 Pump Tata: 1.0 Pata: 1.0 Pump Tata: 1.0 Pump Tata:	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter: 0.0 Casing Diameter: 0.00000000000000000000000000000000000	Depth From:					
Casing Depth UDM: It in the instrumentation of the instrumentation o						
Casing Depth UOM: It Results of Well Yield Testing Pump Test JD: 991526196 Pump Set At State Level: 10.0 Recommended Pump Depth: 40.0 Recommended Pump Depth: 40.0 Recommended Pump Depth: 40.0 Recommended Pump Rate: 50.0 Recomm	Casing Diam	eter:				
Results of Well Yield Testing Pump Test ID: 991526196 Pump Sof At: 30.0 Final Level After Pumping: 30.0 Recommended Pump Bette: 50.0 Final Level After Pumping: 30.0 Recommended Pump Bette: 50.0 Final Level Mare Test: Collean Recommended Pump Rate: 50.0 Final Pumping Rate: 70.0 Recommended Pump Rate: 50.0 Final Pumping Rate: 70.0 Recommended Pump Rate: 50.0 Final Pumping Duration III: 0 Pumping Duration III: 0 Pump Test Detail ID: 934390417 Test Pupe: 0 Pump Test Detail ID: 9344908556 Test Pupe: 0 Pump Test Detail ID: 9344908556 Test Pupe: 0 Pump Test Detail ID: 9344908556 Test Pupe: 0 Pump Test Detail ID: 93459038 Test Level UDM: 1 Pump Test Detail ID: 93459304 Test Level UDM: 1 Pump Test Detail ID: 93459304 Test Level ID: 93449552 Test Level ID: 9344955425 Test Level ID: 93449552 Test Level ID: 93449552 Test Level ID: 93449552 Test Level ID: 934495						
Pump Test ID: 991526196 Pump Stat: 30.0 Final Level After Pumping: 30.0 Powing Rate: 50.0 Recommend Gate: 50.0 Recommend Gate: 50.0 Recommend Gate: 50.0 Recommend Gate: 60.0 Water State After Test: CLEAR Pumping Date: 6 Proving Test Method: 1 Pumping Date: 0 Proving: No Date: State State State: Proving: No Date: State State State: Proving: No Date: State State: Proving: No Date: State State: Proving: State State: Proving: </td <td>Casing Depti</td> <td>h UOM:</td> <td>ft</td> <td></td> <td></td> <td></td>	Casing Depti	h UOM:	ft			
Pump Set At: Static Level: 000 Final Level After Pump Degit: 30.0 Pumping Rate: 50.0 Pumping Rate: 50.0 Pumping Rate: 50.0 Pumping Rate: 50.0 Recommended Pump Ret: 50.0 Recommended Pump Ret: 50.0 Recommended Pump Ret: 50.0 Pumping Duration He: 1 Pumping Duration HH: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934196783 Test Duration: 15 Test Duration: 15 Test Duration: 30.0 Test Duration: 10 Test Level: 10 Test Duration: 10 Test Duration: 10 Test Duration: 10 Test Level: 10 Test Duration: 10 Test Duration: 10 Test Level: 10 Test Duration: 10 Test Level: 10 Test Level: 10 Test Level: 10 Test Level: 10 Test Level: 10 Test Duration: 45 Test Level: 20.0 Test Leve	<u>Results of W</u>	ell Yield Testing				
Static Level: 10.0 Recommended Pumphage: 30.0 Recommended Pump Rate: 5.0 Recommended Pump Rate: 5.0 Levels UOM: t Recommended Pump Rate: 5.0 Levels UOM: t Water State After Test Code: 1 Pumping Test Method: 1 Pump Test Detail ID: 934390417 Test Level UOM: t Pump Test Detail ID: 934390417 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 00M: t Pump Test Detail ID: 9343904558 Test Type: Drew Down Test Level: 30.0 Test Level: 00M: t Water Detail ID: 934850938 Test Type: Drew Down Test Level: 30.0 Test Level: 00M: t Water Detail ID: 93485428 Lever: 1 Water Detail ID: 93484528 Lever: 1 Water Detail ID: 93485428 Lever: 1 Water Detail ID: 93485428 Lever: 1 Water Detail ID: 93484528 Lever: 1 Water Detail ID: 93485428 Lever: 1 Water Detail ID: 93484528 Lever: 1 Water Detail ID: 93485528 Lever: 1 Water ID: 934845428 Lever: 1 Water ID: 934845428 Lever: 1 Water ID: 93485528 Lever: 1 Water ID: 1 Wat			991526196			
Find Level After Pump Depti: 30.0 Recommended Pump Rete: 50.0 Recommended Pump Rete: 50.0 Recommended Pump Rete: 50.0 Itevisi UOM: th Rete UOM: CPM. Water State After Test Code: 1 Pumping Test Method: 1 Pump Test Detail ID: 934106783 Test Level: 30.0			10.0			
Recommended Pump Dight: 40.0 Flowing Rate: 50.0 Flowing Rate: 50.0 Flowing Rate: 6.0 Evels UOM: t Secommended Pump Rate: 5.0 Evels UOM: c Recommended Pump Rate: 6.0 Evels UOM: t Safe State After Test Code: 1 Pumping Drast Method: 1 Pumping Drast Method: 1 Pumping Drast on MR: 0 Para Down & Recovery Pump Test Detail ID: 934106783 Test Evel: 30.0 Test Level: 4 Test Type: 5 Test Detail ID: 9348556 Test Level: 4 Test Level: 4 Test Level: 4 Test Detail ID: 9348556 Test Level: 4 Test						
Pumping Rate: 5.0 Recommended Pump Rate: 5.0 Levels UOM: ft Rate UDM: GPM Water State After Test Cotic: 1 Pumping Test Nethod: 0 Fest Vice: 934106783 Test Vice: Draw Down Test Oreali ID: 934106783 Test Vice: 1 Pump Test Detail ID: 934106783 Test Level: 30.0 Test Level:						
Flowing Rate: Recommended Pump Rate: 5.0 Levels UOM: tr Recommended Pump Rate: 5.0 Levels UOM: GPM Water State After Test Code: 1 Pumping Duration HR: 1 Pumping Duration HR: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934105783 Test Duration: 15 Test Duration: 15 Draw Down & Recovery Pump Test Detail ID: 934300417 Test Duration: 30.0 Test Level UOM: tr Test Duration: 30 Test Level: 30.0 Test Level: 4 Draw Down & Recovery Pump Test Detail ID: 934808556 Test Type: Draw Down Test Duration: 46 Test Level: 30.0 Test Level: 30.0 Test Level UOM: tr tr Draw Down & Recovery Pump Test Detail ID: 934808556 Test Type: Draw Down Test Duration: 40 Test Level: 30.0 Test Level UOM: tr tr Draw Down & Recovery Pump Test Detail ID: 934808556 Test Type: Draw Down Test Duration: 45 Draw Down Draw Down Dr						
Recommended Pump Res: 5.0 thevels UOM: GPNM Water State After Test Code: 1 Water State After Test Code: 1 Pumping Duration HR: 1 Pumping Duration MR: 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: th Draw Down & Recovery Pump Test Detail ID: 934300417 Test State After Test Duration: 30 Test Type: Draw Down Test Duration: 30 Test State After Test Detail ID: 934300417 Test State After Test Detail ID: 934300417 Test State After Test Detail ID: 934300417 Test Level: 30.0 Test Level UOM: th Draw Down & Recovery Pump Test Detail ID: 934300417 Test Level: Draw Down Test Duration: 30 Test Level: Diraw Down Test Level: Diraw Down Test Level: 30.0 Test Level: Job Jake Down Test Duration: 40 Test Level: 30.0 Test Level: Job Jake Down Test Level: 30.0 Test Level: Job Jake Down Test Level UOM: th Water Detail D: 934850938 Test Type: Draw Down Test Level UOM: th Water Detail D: 934850938 Test Type: Draw Down Test Level UOM: th Water Detail D: 934850938 Test Type: Draw Down Test Duration: th Water Detail D: 9348526 Level UOM: th Water Detail D: 9348526 Level UDM: th Water Detail D: 9348526 Level UDM: th Water Detail D: 93485456 Test Duration: th			50.0			
Levels LOM: It GPM			50			
Rate UOM: GPM Water State After Test: CLEAR Pumping Test Method: 1 Pumping Test Method: 0 Flowing: No Data Method: Data Method: Pump Test Detail ID: 934106783 Test Duration: Test Level: 30.0 Test Duration: Test Duration: Test Type: Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level UOM: t Test Level UOM: t Test Level UOM: t Test Duration: </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Water State After Test Code: 1 Water State After Test: CLEAR Pumping Test Method: 1 Pumping Duration MR: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934106783 Test Type: Draw Down Test Duration: 16 Test Level: 30.0 Test Level UOM: It Draw Down & Recovery Pump Test Detail ID: 934390417 Test Strue: Draw Down Test Duration: 30 Test Level: 30.0 Test Level: 1 Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 1 Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level: 30.0 Test Level: 2000: t						
Water State After Test: CLEAR Pumping Test Method: 1 Pumping Duration MR: 1 Pumping Duration MR: 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: t Test Level UOM: t Test Duration: 30 Test Level: 30.0 Test Level: 5 Test Type: Draw Down Test Level: 30.0 Test Level: 30.0 Test Level: 5 Test Type: Draw Down Test Duration: 60 Test Level UOM: t Test Level UOM: t Test Level: 30.0 Test Level UOM: t Test Level UDM: t Test Level UDM: t Test Level Level Level Level Level Level Le		After Test Code				
Pumping Test Method: 1 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery No Pumping Duration MIN: 934106783 Test Vrge: Draw Down Test Vrge: Draw Down Test Vrge: Draw Down Test Vrge: 30.0 Test Level:						
Pumping Duration HR: 1 Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934106783 Test Type: Draw Down Test Level: 30.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934390417 Test Type: Draw Down Test Level: 30.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 9343904556 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 93480598 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934850938 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934850938 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level UOM: ft Draw Down ft Test Duration: fb Draw Down ft Test Duration: fb Draw Down ft ft Draw Down ft ft ft Draw Down ft ft ft Draw Down ft ft ft Draw Down ft						
Pumping Duration MIN: 0 Flowing: No Draw Down & Recovery Pump Test Detail ID: 934106783 Test Level UOM: 1 Draw Down & Recovery Pump Test Detail ID: 934390417 Test Level UOM: 1 Draw Down & Recovery Pump Test Detail ID: 934390417 Test Level ID: 934908556 Test Level ID: 93490856 Test Level ID: 9349						
Flowing: No Draw Down & Recovery Draw Down Test Type: Draw Down Test Type: 30.0 Test Level: 30.0 Test Level: 7000000000000000000000000000000000000						
Pump Test Detail ID: 934106783 Test Type: Draw Down Test Level: 30.0 Test Level: Draw Down Test Level: Draw Down Test Level: 30.0 Test Level: Draw Down Test Level: Draw Down Test Level: Draw Down Test Level: 30.0 Test Level: Down Down Test Level: Draw Down Test Level: Do.0	Flowing:		No			
Test Type: Draw Down Test Duration: 15 Test Level: 30.0 Test Level: 30.0 Test Level UOM: t Draw Down & Recovery Pump Test Detail ID: 934390417 Test Type: Draw Down Test Duration: 30 Test Level: 30.0 Test Level: 30.0 Test Level: Draw Down Test Duration: 60 Test Type: Draw Down Test Duration: 60 Test Level: 30.0 Test Lev	Draw Down &	& Recovery				
Test Type: Draw Down Test Duration: 15 Test Level: 30.0 Test Level: 30.0 Test Level UOM: ti Draw Down & Recovery Pump Test Detail ID: 934390417 Test Type: Draw Down Test Duration: 30 Test Level: 30.0 Test Level: 30.0 Test Level: Comparison of the second of the secon	Pump Test D	etail ID:	934106783			
Test Duration: 15 Test Level: 30.0 Test Level UOM: ti Draw Down & Recovery Pump Test Detail ID: 934390417 Test Type: Draw Down Test Duration: 30.0 Test Duration: 30.0 Test Duration: 30.0 Test Level: 30.0 Test Duration: 60 Test Level: 30.0 Test Level: <td></td> <td></td> <td>Draw Down</td> <td></td> <td></td> <td></td>			Draw Down			
Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934390417 Test Type: Draw Down Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Level: 30.0 Test Level:		n:	15			
Draw Down & Recovery Pump Test Detail ID: 934390417 Test Type: Draw Down Test Duration: 30 Test Level: 30.0 Test Level UOM: t Pump Test Detail ID: 934908556 Test Level: Draw Down Test Level: 30.0 Test Level: 0.0 Test Level: 0.0 Test Level: 0.0 Test Level: 0.0 Test Level: 30.0 Test Level: 93485426 Layer: 1	Test Level:		30.0			
Pump Test Detail ID: 934390417 Test Type: Draw Down Test Duration: 30 Test Level : 30.0 Test Level UOM: ft Draw Down Pump Test Detail ID: 934908556 Test Level: Draw Down Test Detail ID: 934908556 Test Type: Draw Down Test Duration: 60 Test Level: 30.0 Test Level: Draw Down Test Level: Draw Down Test Detail ID: 934650938 Test Duration: 45 Test Level: 30.0 Test Level: 933485426	Test Level U	ОМ:	ft			
Test Type: Draw Down Test Duration: 30 Test Level: 30.0 Test Level UOM: t Draw Down & Recovery Pump Test Detail ID: 934908556 Test Draw Down Test Draw Down Test Drave Down Test Detail ID: 934908556 0 Test Drave Down Test Detail ID: 930.0 0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level UOM: t Draw Down & Recovery Pump Test Detail ID: 934650938 Test Duration: 45 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level UOM: t Water ID: 933485426 Layer: 1	Draw Down &	& Recovery				
Test Dype: Draw Down Test Duration: 30 Test Level: 30.0 Test Level: 30.0 Test Level: 1 Draw Down & Recovery 934908556 Pump Test Detail ID: 934908556 Test Type: Draw Down Test Level: 30.0 Test Level UOM: t Draw Down & Recovery Pump Test Detail ID: Pump Test Detail ID: 934650938 Test Level: 30.0 Test Level UOM:	Pump Test D	etail ID:	934390417			
Test Level: 30. Test Level: 30.0 Test Level UOM: tt Draw Down & Recovery Pump Test Detail ID: 934908556 Test Type: Draw Down Test Level UOM: 60 Test Level UOM: 60 Test Level UOM: 1 Draw Down & Recovery 30.0 Pump Test Detail ID: 934650938 Test Level UOM: t Draw Down & Recovery 934650938 Test Level UOM: 45 Test Level UOM: 45 Test Level UOM: t Water Details 933485426 Layer: 1			Draw Down			
Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Type: Draw Down Test Type: Draw Down Test Level: 30.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: Pump Test Detail ID: 934650938 Test Level: Draw Down Test Duration: 45 Test Duration: 45 Test Duration: 45 Test Level UOM: ft Water DetailS Valuer Details Water ID: 933485426 Layer: 1		n:	30			
Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934908556 Test Type: Draw Down Test Type: Draw Down Test Level: 30.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: Pump Test Detail ID: 934650938 Test Level: Draw Down Test Duration: 45 Test Duration: 45 Test Duration: 45 Test Level UOM: ft Water DetailS Valuer Details Water ID: 933485426 Layer: 1	Test Level:		30.0			
Pump Test Detail ID: 934908556 Test Type: Draw Down Test Level: 30.0 Test Level: 934650938 Test Type: Draw Down Test Type: Draw Down Test Level: 934650938 Test Level: 0.0 Test Level: 0.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level UOM: t Water Details Water Details Water ID: 933485426 Layer: 1	Test Level U	ОМ:				
Test Type: Draw Down Test Level: 30.0 Test Level: 30.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934650938 Test Type: Draw Down Test Level: 30.0 Test Level: 30.0 Test Level UOM: ft Water Details Water ID: Water ID: 933485426 Layer: 1	Draw Down &	& Recovery				
Test Type: Draw Down Test Level: 30.0 Test Level: 30.0 Test Level UOM: ft Draw Down & Recovery Pump Test Detail ID: 934650938 Test Type: Draw Down Test Level: 30.0 Test Level: 30.0 Test Level UOM: ft Water Details Water ID: Water ID: 933485426 Layer: 1	Pump Test D	etail ID:	934908556			
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 933485426 Layer: 1						
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: 30.0 Test Level: 30.0 Test Level: 30.0 Test Level: 1 Water Details 933485426 Layer: 1		n:				
Draw Down & Recovery Pump Test Detail ID: 934650938 Test Type: Draw Down Test Type: Draw Down Test Duration: 45 Test Level: 30.0 Test Level UOM: ft Water Details 933485426 Layer: 1	Test Level:		30.0			
Pump Test Detail ID: 934650938 Test Type: Draw Down Test Duration: 45 Test Level: 30.0 Test Level UOM: ft Water Details 933485426 Layer: 1	Test Level U	ОМ:	ft			
Test Type: Draw Down Test Duration: 45 Test Level: 30.0 Test Level UOM: ft Water Details Water ID: 933485426 Layer: 1	Draw Down &	& Recovery				
Test Type: Draw Down Test Duration: 45 Test Level: 30.0 Test Level UOM: ft Water Details Water ID: 933485426 Layer: 1	Pump Test D	etail ID:	934650938			
Test Duration: 45 Test Level: 30.0 Test Level UOM: ft Water Details 933485426 Layer: 1						
Test Level: 30.0 Test Level UOM: ft Water Details Water ID: 933485426 Layer: 1 Order No: 22050200580		n:				
Test Level UOM: ft Water Details Water ID: 933485426 Layer: 1	Test Level:					
Water ID: 933485426 Layer: 1 Order No: 22050200580	Test Level U	ОМ:				
Layer: 1	Water Details	5				
Layer: 1	Water ID:		933485426			
26 <u>erisinfo.com</u> Environmental Risk Information Services Order No: 22050200589	Layer:					
26 erisinfo.com Environmental Risk Information Services Order No: 22050200589						
	26	erisinfo.com En	vironmental Risk Info	ormation Service	S	Order No: 22050200589
	20-					

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Kind Code: Kind: Water Found Water Found	Depth: Depth UO	М:	1 FRESH 76.0 ft				
<u>3</u>	2 of 3		ESE/13.7	104.8/-0.66	lot 8 con 4 ON		wwis
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water Flowing (Y/N) Flow Rate: Clear/Cloudy	er Use: se: atus: rial: n Method:): liability: liability: liock: Bedrock: Level:):	1527679 Not Used Observat			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 2/28/1994 TRUE 6617 1 OTTAWA NEPEAN TOWNSHIP 008 04	
PDF URL (Ma		2)	https://d2khazk8e83	rdv.cloudfront.ne	t/moe_mapping/downloads	/2Water/Wells_pdfs/152\1527679.p	df
Additional De Well Comple Year Comple Depth (m): Latitude: Longitude: Path:	ted Date:	עס	1994/02/08 1994 13.716 45.2305090490084 -75.7661064626734 152\1527679.pdf				
Bore Hole Inf	formation						
Bore Hole ID: DP2BR: Spatial Statu: Code OB: Code OB Des Open Hole: Cluster Kind: Date Comple Remarks: Elevrc Desc: Location Sou Improvement Source Revis Supplier Con	s: sc: ted: trce Date: t Location t Location sion Comm	Source: Method:	5 994 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439861.70 5008843.00 9 unknown UTM lot	
<u>Overburden a</u> <u>Materials Inte</u>		<u>:k</u>					
Formation ID):		931067384				
Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB		
---	--------------------------	----------------------------	------------------	------	----		
Layer:		3					
Color: General Color	r-						
Mat1:	•	28					
Most Common	n Material:	SAND					
Mat2:		81 CANDY					
Mat2 Desc: Mat3:		SANDY 84					
Mat3 Desc:		SILTY					
Formation To		26.0					
Formation En Formation En	d Depth: d Depth UOM:	37.0 ft					
<u>Overburden a</u> <u>Materials Intel</u>							
Formation ID:	,	931067385					
Layer:		4					
Color: General Color	-						
Mat1:	-	28					
Most Commo	n Material:	SAND					
Mat2:		06					
Mat2 Desc: Mat3:		SILT 90					
Mat3 Desc:		VERY					
Formation To		37.0					
Formation En		42.0					
Formation En	d Depth UOM:	ft					
<u>Overburden a</u> Materials Inter							
Formation ID:		931067382					
Layer:		1					
Color: General Color		6 BROWN					
General Color Mat1:		28					
Most Common	n Material:	SAND					
Mat2:		01					
Mat2 Desc: Mat3:		FILL					
Mat3 Desc:							
Formation To	p Depth:	0.0					
Formation En	d Depth:	2.0					
Formation En	d Depth UOM:	ft					
<u>Overburden a</u> Materials Inter							
Formation ID:	,	931067383					
Layer:		2					
Color: General Color	<i>.</i>						
Mat1:		10					
Most Common	n Material:	COARSE SAND					
Mat2:							
Mat2 Desc: Mat3:							
Mats. Mats Desc:							
Formation Top	p Depth:	2.0					
Formation En	d Depth:	26.0					
Formation En	d Depth UOM:	ft					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	 DI
<u>Overburden</u> Materials Int	and Bedrock erval				
Formation IL):	931067386			
Layer:		5			
Color:					
General Colo Mat1:	or:	28			
Most Comm	on Material	28 SAND			
Mat2:	on material.	12			
Mat2 Desc:		STONES			
Mat3:		84			
Mat3 Desc:		SILTY			
Formation T		42.0 45.0			
Formation E Formation E	nd Depth UOM:	45.0 ft			
<u>Method of C</u> <u>Use</u>	onstruction & Well				
		004507070			
Method Con	struction ID: struction Code:	961527679 6			
Method Con		6 Boring			
	d Construction:	Doning			
Pipe Informa	ation				
Pipe ID:		10597875			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction</u>	n Record - Casing				
Casing ID:		930086111			
Layer:		1			
Material:	" Matarial				
Open Hole o Depth From:		PLASTIC			
Depth From. Depth To:		40.0			
Casing Diam	neter:				
Casing Diam	neter UOM:	inch			
Casing Dept	h UOM:	ft			
<u>Construction</u>	n Record - Screen				
Screen ID:		933326452			
Layer:		1 200			
Slot: Screen Top I	Depth:	200			
Screen End					
Screen Mate	rial:				
Screen Dept	h UOM:	ft			
Screen Diam		inch			
Screen Dian	neter:	1.0			
<u>Results of W</u>	/ell Yield Testing				
Pump Test II		991527679			
Pumn Sot At	f-				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
	After Pumping:	5.0			
Pumping Ra					
Recomment Levels UOM	led Pump Rate:	ft			
Rate UOM: Water State	After Test Code:	GPM			
Water State Pumping Te Pumping Du	After Test: st Method:				
Pumping Du Flowing:		No			
<u>Water Detail</u>	<u>s</u>				
Water ID:		933487192			
Layer: Kind Code:		1			
Kind:		FRESH			
Water Found	I Depth:	4.0			
Water Found	I Depth UOM:	ft			
<u>3</u>	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
inal Well Status:	Observation Wells	Abandonment Rec:	
Nater 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
Vell 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:

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
DP2BR:				Elevrc:		
Spatial Status	5:			Zone:	18	
Code OB:				East83:	439861.70	
Code OB Des	c.			North83:	5008843.00	
Open Hole:	0.			Org CS:	0000010.00	
Cluster Kind:				UTMRC:	9	
		1001 00:00:00			-	
Date Complet	ea: 07-Feb	-1994 00:00:00		UTMRC Desc:	unknown UTM	
Remarks:				Location Method:	lot	
Elevrc Desc:						
Location Sou						
Improvement	Location Source:					
Improvement	Location Method:					
Source Revis	ion Comment:					
Supplier Com	iment:					
<u>Overburden a</u> Materials Inte						
Formation ID:		931067387				
Layer:		1				
Color:						
General Color	r:					
Mat1:		28				
Most Commo	n Material:	SAND				
Mat2:		09				
Mat2 Desc:		MEDIUM SAND				
Mat2 Desc. Mat3:						
Mat3 Desc:	. Dawith	0.0				
Formation To		0.0				
Formation En		2.0				
Formation En	d Depth UOM:	ft				
<u>Overburden a</u> <u>Materials Inte</u>						
Formation ID:		931067390				
Layer:		4				
Color:						
General Color	r-					
Mat1:		05				
Most Commo	n Matarial:	CLAY				
Mat2:	n watenar.	OLAT				
Mat2 Desc:						
Mat3:						
Mat3 Desc:						
Formation To	p Depth:	22.0				
Formation En		36.0				
Formation En	d Depth UOM:	ft				
<u>Overburden a</u> <u>Materials Inte</u>						
Formation ID:		931067389				
Layer:		3				
Color:						
General Color	r:					
Mat1:		28				
Most Commo	n Matorial:	SAND				
WOSL COMMO	n waterial:					
Mato		81				
		OANDY				
		SANDY				
Mat2 Desc: Mat3:		06				
Mat2 Desc:						

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation E Formation E	nd Depth: nd Depth UOM:	22.0 ft			
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID):	931067388			
Layer: Color:		2			
General Cold	or:	09			
Mat1: Most Commo Mat2:	on Material:	MEDIUM SAND			
Mat2 Desc: Mat3:		STONES			
Mat3 Desc: Formation Te	op Depth:	2.0			
Formation E		18.0 ft			
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID		931067391			
Layer: Color:		5			
General Cold	or:	05			
Mat1: Most Commo	on Material:	CLAY			
Mat2:		28			
Mat2 Desc: Mat3:		SAND 06			
Mat3 Desc:		SILT			
Formation To Formation E	op Depth: nd Depth [:]	36.0 45.0			
Formation E	nd Depth UOM:	ft			
<u>Annular Spa</u> <u>Sealing Reco</u>	ce/Abandonment ord				
Plug ID:		933112643			
Layer: Plug From:		1 0.0			
Plug To:		3.0			
Plug Depth U	JOM:	ft			
<u>Annular Spa</u> Sealing Reco	<u>ce/Abandonment</u> ord				
Plug ID:		933112644			
Layer: Plug From:		2 26.0			
Plug To:		36.0			
Plug Depth L	JOM:	ft			
<u>Annular Spa</u> <u>Sealing Reco</u>	ce/Abandonment ord				
Plug ID:		933112645			
Layer: Plug From:		3 36.0			
Plug To:		45.0			
32	erisinfo.com Env	vironmental Risk Info	ormation Service	es	Order No: 22050200589

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug Depth U	IOM:	ft			
<u>Method of Co Use</u>	onstruction & Well				
Method Cons	struction Code:	961527680 6 Boring			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		10597876 1			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:	930086112 1 5 PLASTIC inch ft			
Construction	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Matei Screen Diam Screen Diam	Depth: rial: h UOM: eter UOM:	933326453 1 200 44.0 ft inch			
<u>Results of W</u>	ell Yield Testing				
	: fter Pumping: ed Pump Depth: te:	991527680 4.0			
Recommend Levels UOM: Rate UOM: Water State Water State Pumping Tes Pumping Du	ed Pump Rate: After Test Code: After Test: St Method: ration HR:	ft GPM			
Pumping Du Flowing:	auon WIIN:	No			
Water Details	5				

Мар Кеу	Numbe Record		Elev/Diff (m)	Site		DB
Water ID: Layer: Kind Code: Kind: Water Found Water Found	•	933487193 1 5 Not stated 2.0 M: ft				
<u>4</u>	1 of 1	ESE/28.3	104.8 / -0.66	Kanata Research Pa Part of Lots 8, 9 and Ottawa ON K2K 2X3	1 10, Concession 4	ECA
Approval No: Approval Dat Status: Record Type Link Source: SWP Area Na Approval Type Project Type Business Nat Address: Full Address Full PDF Link PDF Site Loc	te: :: ame: pe: : : me: : k:	Municipal Drinking Kanata Research			Ottawa -75.766 45.2304	
<u>5</u>	1 of 1	W/31.0	109.9 / 4.42	lot 8 con 4 ON		WWIS
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Red Depth to Bed Well Depth: Overburden/A Pump Rate: Static Water Flowing (Y/N) Flow Rate: Clear/Cloudy	er Use: Ise: atus: rial: n Method:): liability: drock: Bedrock: Bedrock: Level:):	1506079 Domestic 0 Water Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 7/10/1961 TRUE 3503 1 OTTAWA NEPEAN TOWNSHIP 008 04 RF	
PDF URL (Ma	ар):	https://d2khazk8e	33rdv.cloudfront.ne	t/moe_mapping/downloads	s/2Water/Wells_pdfs/150\1506079.p	df
Additional De Well Complet Year Comple Depth (m): Latitude: Longitude: Path:	ted Date:	<u>p)</u> 1961/06/14 1961 35.052 45.231014309235 -75.769947748718 150\1506079.pdf				

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
	ed: 14-Jun-1 rce Date: Location Source: Location Method: on Comment:	2 961 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439560.70 5008902.00 5 margin of error : 100 m - 300 m p5	
<u>Overburden al</u> Materials Inter						
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Formation End	n Material: o Depth: d Depth:	931003739 1 7 RED 09 MEDIUM SAND 0.0 10.0 ft				
<u>Overburden al</u> Materials Inter						
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Formation End	n Material: o Depth: d Depth:	931003740 2 07 QUICKSAND 10.0 100.0 ft				
<u>Overburden al</u> <u>Materials Inter</u>						
Formation ID: Layer: Color: General Color Mat1: Most Commor Mat2: Mat2 Desc: Mat3:		931003741 3 09 MEDIUM SAND 11 GRAVEL				

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Mat3 Desc: Formation Top Depth: Formation End Depth Formation End Depth UOM Method of Construction & Use Method Construction ID: Method Construction Code Method Construction: Other Method Construction: Other Method Construction: Pipe Information Pipe ID: Casing No: Comment: Alt Name: Construction Record - Cas Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter: Casing Depth UOM: Construction Record - Cas Casing Diameter: Casing Depth UOM: Results of Well Yield	Vell 961506079 : 1 Cable Tool : 10576692 1		
Formation End Depth: Formation End Depth UOM Method of Construction & Use Wethod Construction ID: Method Construction: Other Method Construction Pipe Information Pipe ID: Casing No: Comment: Alt Name: Construction Record - Cas Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter: Casing Depth UOM: Construction Record - Cas Casing Diameter: Casing Diameter: Casing Diameter: Casing Diameter: Casing Depth UOM: Construction Record - Cas Casing Depth UOM: Construction Record - Cas Casing Depth UOM: Construction Record - Cas Casing Depth UOM: Casing Depth UOM: Casing Depth UOM: Casing Depth UOM: Casing Diameter: Casing Di	115.0 ft Vell 961506079 f 1 Cable Tool f 10576692 1		
Formation End Depth UOM Method of Construction & Use Method Construction ID: Method Construction: Depth Method Construction: Diher Method Construction Pipe ID: Casing No: Comment: Alt Name: Construction Record - Cas Casing ID: Layer: Material: Depth From: Depth To: Casing Diameter: Casing Diameter: Casing Diameter: Casing Depth UOM: Construction Record - Cas Casing ID: Layer: Material: Depth To: Casing Diameter: Casing Diameter: Casing Diameter: Casing Diameter: Casing Depth UOM: Construction Record - Cas Casing Diameter: Casing Depth UOM: Construction Record - Cas Casing Depth UOM: Casing Depth UOM: Casing Diameter: Casing Diameter	ft Vell 961506079 1 Cable Tool 10576692 1		
Method of Construction & Jse Method Construction ID: Method Construction: Dither Method Construction Pipe Information Dipe ID: Casing No: Comment: Alt Name: Construction Record - Cas Casing ID: Layer: Material: Dpen Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter: Casing Depth UOM: Casing ID: Layer: Material: Dpen Hole or Material: Depth From: Casing Diameter: Casing Diameter: Casing Diameter: Casing Diameter: Casing Diameter: Casing Depth UOM: Casing Depth UOM: Results of Well Yield Testing Pump Test ID: Pump Set At: Static Level After Pumping:<	Vell 961506079 : 1 Cable Tool : 10576692 1		
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Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site	D
Water Details						
Water ID:			933460154			
Layer:			1			
Kind Code:			1			
Kind:			FRESH			
Water Found I	Denth [.]		40.0			
Water Found		И:	ft			
<u>6</u>	1 of 1		W/31.1	109.9 / 4.42	ON	BOR
Porchola ID:		610428			-	No
Borehole ID:		2155119	10		Inclin FLG:	
OGF ID:		2155119	43		SP Status: Surv Elev:	Initial Entry
Status:		Doroholo				No
Type:		Borehole			Piezometer:	No
Use: Communications D	-1	ILINI 406	4		Primary Name:	
Completion Da		JUN-196	1		Municipality:	
Static Water L					Lot:	
Primary Water					Township:	45 004045
Sec. Water Us		DE 1			Latitude DD:	45.231015
Total Depth m	1:	35.1 Oray and 6			Longitude DD:	-75.769948
Depth Ref:		Ground S	Surface		UTM Zone:	18
Depth Elev:					Easting:	439561
Drill Method:					Northing:	5008902
Orig Ground E		111			Location Accuracy:	
Elev Reliabil N					Accuracy:	Not Applicable
DEM Ground I	Elev m:	112				
Concession:						
Location D:						
Survey D:						
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Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Material 1: Material 2: Material 3: Material 4: Gsc Material L Stratum Desci	•	Sand	SAND. WHITE.		Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:		
<u>Source</u>							
Source Type: Source Orig: Source Date: Confidence: Observatio: Source Name: Source Detail: Confiden 1:		Data Surv Geologica 1956-197	al Survey of Canada			Spatial/Tabular 1 Varies NAD27 Mean Average Sea Level	
Source List							
Source Identif Source Type: Source Date: Scale or Reso Source Name: Source Origin	lution:	1 Data Surv 1956-197 Varies			Horizontal Datum: Vertical Datum: Projection Name: on System (UGAIS)	NAD27 Mean Average Sea Level Universal Transverse Mercator	
7	1 of 1		WNW/112.9	109.8 / 4.39	lot 9 con 4 ON		wwis
Well ID: Construction Primary Water Sec. Water Us Final Well Sta Water Type: Casing Materi Audit No: Tag: Construction Elevation (m): Elevation Reli Depth to Bedr Well Depth: Overburden/B Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy:	r Use: tus: fal: Method: ability: rock: Bedrock: evel:	7176828 M08727 A122823			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	Yes 2/16/2012 TRUE 1844 5 OTTAWA NEPEAN TOWNSHIP 009 04 RF	
PDF URL (Maj	o):		https://d2khazk8e83	rdv.cloudfront.ne	et/moe_mapping/downloads/	/2Water/Wells_pdfs/717\7176828.pdf	
Additional De	tail(s) (Map	D)					
Well Complete Year Complete Depth (m): Latitude: Longitude: Path:			2011/10/13 2011 45.2315768285544 -75.7706267065288 717\7176828.pdf				

Map Key Numb Recor		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Bore Hole Information	!					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date Improvement Location Source Revision Com Supplier Comment:	n Source: n Method:			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439508.00 5008965.00 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>8</u> 1 of 1	ŀ	WNW/169.6	109.9 / 4.45	4420 TRAIL RD OTTAWA ON		WWIS
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: 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: PDF URL (Map):	0 Observation Z208695 A173902	nd Test Hole Wells		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	5/28/2015 TRUE 7241 7 4420 TRAIL RD OTTAWA NEPEAN TOWNSHIP	
Additional Detail(s) (N Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:	20 20 4.8 45	15/05/04 15 38 .2320701501404 5.7708881623767				
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
2	-		-

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Remarks:				Location Method:	wwr	
Elevrc Desc: Location Sou	ree Deter					
	Location Source:					
	Location Method:					
	ion Comment:					
Supplier Com						
<u>Overburden a</u> Materials Inte						
Formation ID:		1005624055				
Layer:		1				
Color:		6				
General Colo	:	BROWN				
Mat1:		09				
Most Commo	n Material:	MEDIUM SAND				
Mat2: Mat2 Dece						
Mat2 Desc:		PACKED				
Mat3:		73				
Mat3 Desc:	n Danéh.	HARD				
Formation To		0.0				
Formation En	a Deptn:	4.880000114440918				
Formation En	d Depth UOM:	m				
Annular Spac Sealing Reco	e/Abandonment_ rd					
Plug ID:		1005624063				
Layer:		1				
Plug From:		0.0				
Plug To:		0.3100000023841858	3			
Plug Depth U	OM:	m				
<u>Annular Spac</u> Sealing Reco	<u>e/Abandonment</u> rd					
-		1005001001				
Plug ID:		1005624064				
Layer: Diver From		2 0.3100000023841858	0			
Plug From: Plug To:			0			
Plug To: Plug Depth U	OM:	1.5 m				
ring Deptil O	011.					
Annular Spac Sealing Recol	e/Abandonment_ rd					
		1005624065				
Plug ID: Lavor:		3				
Layer: Plug From:		3 1.5				
Plug From: Plug To:		4.880000114440918				
Plug To: Plug Depth U	о <i>м</i> -	4.880000114440918 m				
riug Deptii U						
<u>Method of Co</u> <u>Use</u>	nstruction & Well					
Method Cons	truction ID:	1005624062				
	truction D:	D				
Method Cons		Direct Push				
	Construction:					
Pipe Informat	ion					

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Pipe ID: Casing No: Comment: Alt Name:			1005624054 0				
<u>Construction</u>	Record - C	Casing					
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:		1005624058 1 5 PLASTIC 0.0 1.830000042915344 3.450000047683716 cm m				
Construction	Record - S	<u>Screen</u>					
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Matei Screen Depti Screen Diam	Depth: rial: h UOM: eter UOM:		1005624059 1 10 1.830000042915344 4.880000114440918 5 m cm 4.210000038146973	i			
Water Details	5						
Water ID: Layer: Kind Code: Kind: Water Found Water Found		и.	1005624057 m				
	-						
<u>Hole Diamete</u> Diameter: Depth From: Depth To: Hole Depth L Hole Diamete	IOM:		1005624056 5.710000038146973 0.0 4.880000114440918 m cm				
<u>9</u>	1 of 1		WNW/198.2	110.9/5.47	ON		WWIS
Well ID: Construction Primary Wate Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m)	er Use: se: atus: rial: n Method:	7257601 C26608 A173902			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality:	Yes 2/10/2016 TRUE 1844 8 OTTAWA NEPEAN TOWNSHIP	

Order No: 22050200589

Map Key	Number Records		Elev/Diff) (m)	Site		D
Elevation Reli Depth to Bedr Well Depth: Overburden/E Pump Rate: Static Water L Flowing (Y/N) Flow Rate: Clear/Cloudy:	rock: Bedrock: Level:):			Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:		
PDF URL (Maj	p):					
Additional De	etail(s) (Map	2				
Well Complete Year Complete Depth (m): Latitude: Longitude: Path:		2015/12/18 2015 45.231866369794 -75.77173894620				
Bore Hole Info	ormation					
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Desi Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Soui Improvement Improvement Source Revisi Supplier Com	s: ted: rce Date: Location S Location M ion Comme	lethod:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439421.00 5008998.00 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>10</u>	1 of 1	WNW/198.4	110.9 / 5.47	4420 TRAIL ROAD OTTAWA ON		ww
Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type: Casing Materi Audit No: Tag: Construction Elevation (m): Elevation Reli Depth to Bedr Well Depth: Depth to Bedr Well Depth: Doverburden; Static Water L Flowing (Y/N), Flow Rate: Clear/Cloudy:	er Use: se: atus: ial: Method: : iability: rock: Bedrock: Level: :	7257602 Monitoring Observation Wells Z227904 A142564		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	2/10/2016 TRUE 1844 7 4420 TRAIL ROAD OTTAWA NEPEAN TOWNSHIP	

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: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location N Source Revision Comme Supplier Comment:	lethod:	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439414.00 5008989.00 UTM83 4 margin of error : 30 m - 100 m wwr
<u>Method of Construction</u>	& Well		
Method Construction ID: Method Construction Co Method Construction: Other Method Construct	de:		
Pipe Information			
Pipe ID: Casing No: Comment: Alt Name:	1005975625 0		
Construction Record - C	asing		
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To:	1005975631		
Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	cm m		
Construction Record - Se	creen		
Screen ID: Layer: Slot:	1005975632		

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen Top I Screen End I Screen Mate Screen Dept Screen Diam Screen Diam	Depth: rial: h UOM: neter UOM:	m cm	1				
Water Details	<u>s</u>						
Water ID: Layer: Kind Code: Kind: Water Found			05975630				
Water Found	I Depth UON	1 : m					
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To:		10	05975628				
Hole Depth L Hole Diamete		m cm	ı				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To:		10	05975629				
Hole Depth L Hole Diamete		m cm	1				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	JOM:)	17			
<u>11</u>	1 of 4	V	VNW/200.2	109.9 / 4.42	4420 TRAIL RD. lot 8 NEPEAN ON	con 4	WWIS
Well ID: Constructior Primary Wate Sec. Water U Final Well St Water Type: Casing Mate	er Use: Ise: tatus:	1536331 Municipal Water Supply	у		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	5/9/2006 TRUE 1558 3	
Audit No: Tag: Construction Elevation (m Elevation Re Depth to Beo Well Depth: Overburden/ Pump Rate:): liability: drock:	Z39277 A035404			Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83:	4420 TRAIL RD. OTTAWA NEPEAN TOWNSHIP 008 04 RF	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Static Water Flowing (Y/N Flow Rate: Clear/Cloudy):			Northing NAD83: Zone: UTM Reliability:		
PDF URL (Ma	ap):	https://d2khazk8e83	rdv.cloudfront.n	et/moe_mapping/download	ls/2Water/Wells_pdfs/153\1536331.pdf	
Additional De	<u>etail(s) (Map)</u>					
Well Comple Year Comple Depth (m): Latitude: Longitude: Path:		2006/04/07 2006 44.8 45.2321750627586 -75.7713482011276 153\1536331.pdf				
<u>Bore Hole Int</u>	formation					
Improvement Source Revis Supplier Con	s: sc: ted: 07-Apr trce Date: t Location Source: t Location Method: sion Comment:	997 -2006 00:00:00		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 439452.00 5009032.00 UTM83 3 margin of error : 10 - 30 m wwr	
<u>Overburden a</u> <u>Materials Inte</u>						
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation El	or: on Material: op Depth:	933053503 3 2 GREY 11 GRAVEL 13 BOULDERS 77 LOOSE 31.07999992370605 34.13000106811523 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

45

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Mat3: Mat3 Desc: Formation To Formation Er Formation Er</i>	p Depth: Id Depth: Id Depth UOM:	74 LAYERED 34.13000106811523 35.34999847412109 m			
<u>Overburden a</u> Materials Inte					
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc:	r:	933053502 2 GREY 28 SAND 79 PACKED			
Formation To Formation Er Formation Er		20.71999931335449 31.079999992370605 m			
<u>Overburden a</u> Materials Inte					
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation Er	r: n Material: p Depth:	933053505 5 2 GREY 15 LIMESTONE 74 LAYERED 35.349998474121094 44.79999923706055 m	4		
<u>Overburden a</u> Materials Inte					
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation To Formation Er Formation Er	r: n Material: p Depth:	933053501 1 6 BROWN 28 SAND 79 PACKED 0.0 20.719999313354492 m	2		
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons Method Cons	truction ID: truction Code:	961536331 4			

Method Construction: Relary (Mi) Other Method Construction: Pipe ID: Pipe ID: 11560004 Comment: 1 Construction Record - Casing Construction Record - Casing Depth From: -0.6000000238148579 Depth From: -0.600000238148579 Depth From: -0.600000238148579 Depth From: -0.600000238148579 Casing Diameter CMM: cm Casing Diameter CMM: cm Casing Diameter: -0.770000915557244 Casing Diameter: Casing Diameter: Casing Diameter: 1 Mater ID: 11681002 <th>Мар Кеу</th> <th>Number of Records</th> <th>Direction/ Distance (m)</th> <th>Elev/Diff (m)</th> <th>Site</th> <th></th> <th>DE</th>	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Pipe ID: 11550004 Casing No: 0 Comment: 1 Construction Record - Casing 00078943 Casing ID: 90078943 Layer: 1 Material: 1 Open Hole or Material: 5 String Diameter: -0.6000000238418579 Depth From: -0.700000000238418579 Depth From: -0.700000000238418579 Depth To: 53,7790000015627344 Casing Diameter: 15,859999656677246 Casing Diameter: 00078944 Casing Diameter: 0000000238418579 Depth To: 43,799000915627344 Open Hole or Material: 0PEN HOLE Depth Torn: 37,79000015627344 Depth Torn: 37,390001373291016 Water JD: 93,31001373291016 Water Could Depth UOM: m Hole Diameter:			Rotary (Air)				
Casing No: 1 Comment: 1 Att Name: 1 Construction Record - Casing 1 Casing ID: 930878943 Layer: 1 Depth Folio or Material: STEEL Depth Form: -0 600000023418579 Depth Form: -0 600000023418579 Depth Form: -0 600000023418579 Depth Form: -0 600000023418579 Casing Diameter: 15.869990656677246 Casing Diameter: 000000023418579 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 0 Casing Diameter: 2 Casing Diameter: 2 Casing Diameter: 2 Casing Diameter: 0 Casing Diameter: 37.79000015527344 Depth Form: 934075046 Layer: 9 Kind Code: 1 Water Found Depth: 93.31001373291018 Water Found Depth: 93.31001373291018 Water Found Depth UOM: <t< td=""><td><u>Pipe Informa</u></td><td><u>tion</u></td><td></td><td></td><td></td><td></td><td></td></t<>	<u>Pipe Informa</u>	<u>tion</u>					
Casing ID: 930878943 Layer: 1 Open Hole or Material: STEEL Openh From: 97.790000015527344 Casing Diameter: 15.859999666677246 Casing Diameter: 15.859999666677246 Casing Diameter: 15.859999666677246 Casing Diameter: 15.859999666677246 Casing Diameter: 16.859999666677246 Casing Diameter: 0 Casing Diameter: 2 Material: 4 Open Hole or Material: 0 Open Hole or Material: 0 Open Hole or Material: 0 Casing Diameter: 37.790000915527344 Casing Diameter: 37.790000915527344 Casing Diameter: 0 Water Found Depth: 93.910001373291016	Casing No: Comment:						
Layer: 1 Open Hole or Material: STEEL Opent From: -0.6000000238418579 Depth From: 37.70000015527344 Casing Diameter: 15.859999656677246 Casing Diameter: 15.859999656677246 Casing Diameter: 15.859999656677246 Casing Diameter: 05.859999656677246 Casing Diameter: m Casing Diameter: 930878944 Layer: 2 Material: 4 Open Hole or Material: OPEN HOLE Opent Hole or Material: OPEN HOLE Depth From: 37.790000915527344 Depth To: 44.799999323706055 Casing Diameter: Casing Diameter: Casing Diameter: m Vater Details Material: Water ID: 934075046 Layer: 39.310001373291016 Water Found Depth: 39.310001373291016 Water Found Depth: 39.31000015527344 Depth For: 37.790000015527344 Depth For: 37.790000015527344 De	<u>Construction</u>	n Record - Casing					
Casing ID: 930878944 Layor: 2 Material: 4 Open Hole or Material: OPEN HOLE Depth From: 37.790000915527344 Depth To: 44.79999923706055 Casing Diameter: Casing Diameter: Casing Diameter: To: Casing Diameter: m Vater Details M Water ID: 934075046 Layer: 1 Kind Code: Kind: Water Found Depth: 39.310001373291016 Water Found Depth: m Hole Diameter: 15.229999542236328 Depth To: 15.229999523706055 Hole Dointer: 37.790000915527344 Depth Form: 37.790000915527344 Depth Form: cm Hole Diameter: cm Hole Diameter: cm Hole Diameter: 0 Depth From: 0.0 Depth From: 0.0 Depth From: 0.0 Depth From: 0.0 Dept	Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam	eter: eter UOM:	1 1 STEEL -0.60000002384185 37.7900009155273 15.8599996566772 cm	44			
Layer: 2 Material: 4 Open Hole or Material: OPEN HOLE Depth From: 37.790000915527344 Depth To: 44.7999923706055 Casing Diameter: Cm Casing Dameter UOM: cm Casing Depth UOM: m Water Details Water Dc: 934075046 Layer: 1 Kind Code: Kind: Water Found Depth: 39.310001373291016 Water Found Depth UOM: m Hole Diameter 1 Hole Diameter Hole Diameter 15.229999542236328 Depth To: 1481093 Diameter: 37.790000915527344 Depth To: 44.79999923706055 Hole Diameter m Hole Diameter 22.75 Depth To: 11681092 Diameter: 22.75 Depth From: 0.0 Depth To: 37.790000915527344 Hole Diameter: 37.790000915527344	<u>Construction</u>	n Record - Casing					
Water ID: 934075046 Layer: 1 Kind Code: 1 Kind: 39.310001373291016 Water Found Depth: 39.310001373291016 Water Found Depth UOM: m Hole Diameter Hole Diameter: 11681093 Diameter: 15.22999542236328 Pepth From: 37.79000915527344 Pepth To: 44.79999923706055 Hole Diameter UOM: m Hole Diameter cm Hole Diameter cm Hole Diameter: 22.75 Pepth From: 0.0 Pepth To: 0.0	Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam	eter: eter UOM:	2 4 OPEN HOLE 37.7900009155273 44.7999992370605 cm				
Layer: 1 Kind Code: 39.310001373291016 Water Found Depth: 39.310001373291016 Water Found Depth UOM: m Hole Diameter 11681093 Diameter: 15.229999542236328 Depth From: 37.790000915527344 Depth To: 44.79999923706055 Hole Diameter m Hole Diameter UOM: m Hole Diameter UOM: m Hole Diameter 22.75 Depth From: 0.0 Depth From: 0.0 Depth From: 0.0 Depth From: 37.790000915527344	Water Details	5					
Hole ID: 11681093 Diameter: 15.22999542236328 Depth From: 37.79000915527344 Depth To: 44.79999923706055 Hole Depth UOM: m Hole Diameter UOM: cm Hole Diameter Diameter: 22.75 Depth From: 0.0 Depth To: 37.79000915527344 Hole Depth VOM: m	Layer: Kind Code: Kind: Water Found	Depth: Depth UOM:	1 39.3100013732910	16			
Diameter: 15.229999542236328 Depth From: 37.79000915527344 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: 37.79000915527344 Hole Depth UOM: m	Hole Diamete	<u>er</u>					
Hole ID: 11681092 Diameter: 22.75 Depth From: 0.0 Depth To: 37.79000915527344 Hole Depth UOM: m	Diameter: Depth From: Depth To: Hole Depth U	IOM:	15.2299995422363 37.7900009155273 44.7999992370605 m	44			
Diameter: 22.75 Depth From: 0.0 Depth To: 37.79000915527344 Hole Depth UOM: m	Hole Diamete	er					
	Diameter: Depth From: Depth To: Hole Depth U	IOM:	22.75 0.0 37.7900009155273 m	44			
47 erisinfo.com Environmental Risk Information Services Order No: 220502	47	erisinfo.com Er	nvironmental Risk Info	ormation Service	es	Order No: 22050200	589

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>11</u>	2 of 4		WNW/200.2	109.9 / 4.42	ON		WWIS
Well ID:		7044290			Data Entry Status:		
Constructio					Data Src:		
Primary Wa					Date Received:	5/31/2007	
Sec. Water					Selected Flag:	TRUE	
Final Well S		Test Hole			Abandonment Rec:		
Water Type:					Contractor:	6964	
Casing Mate	erial:				Form Version:	3	
Audit No:		Z34847			Owner:		
Tag:		A035404			Street Name:	0771111	
Constructio					County:	OTTAWA	
Elevation (n	,				Municipality:	15000	
Elevation Re					Site Info:		
Depth to Be					Lot:		
Well Depth:					Concession:		
Overburden					Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water					Northing NAD83:		
Flowing (Y/I Flow Rate:	v):				Zone:		
	h				UTM Reliability:		
Clear/Cloud	y:						
PDF URL (M	lap):		https://d2khazk8e83	Brdv.cloudfront.ne	et/moe_mapping/downloads	/2Water/Wells_pdfs/704\7044290.pdf	
Additional E	Detail(s) (Ma	<u>ip)</u>					
Well Comple	eted Date:		2007/05/20				
Year Compl Depth (m):	eted:		2007				
			45 0004 75000 7500				

Year Completed:	2007
Depth (m):	
Latitude:	45.2321750627586
Longitude:	-75.7713482011276
Path:	704\7044290.pdf

Bore Hole Information

Bore Hole ID: DP2BR:	11766724	Elevation: 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:			

Annular Space/Abandonment Sealing Record

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

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

	lumber of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Space/A</u> Sealing Record	bandonment				
Plug ID: Layer: Plug From:		933319955 2 1.5			
Plug To: Plug Depth UOM	1:	33.83000183105469 m			
<u>Annular Space/A</u> Sealing Record	<u>bandonment</u>				
Plug ID: Layer:		933319956 3			
Plug From: Plug To: Plug Depth UOM	1:	33.83000183105469 36.88000106811523 m	4		
<u>Annular Space/A</u> Sealing Record	<u>bandonment</u>				
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM	1:	933319958 5 40.84000015258789 43.88999938964844 m			
<u>Annular Space/A</u> Sealing Record	<u>\bandonment</u>				
Plug ID: Layer:		933319957 4			
Plug From: Plug To: Plug Depth UOM	1:	4 36.88000106811523 40.84000015258789 m	4		
<u>Method of Const</u> <u>Use</u>	truction & Well				
Method Constru Method Constru Method Constru Other Method Co	ction Code: ction:	967044290			
Pipe Information	!				
Pipe ID: Casing No: Comment: Alt Name:		11774414 1			
Construction Re	cord - Casing				
Casing ID: Layer: Material: Open Hole or Ma Depth From: Depth From:	nterial:	930900057 1 5 PLASTIC 0.0 27 70000004552724	4		
Depth To: Casing Diameter	<u>.</u>	37.79000091552734 5.199999809265137			

	lumber of lecords	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing Diameter Casing Depth UC		cm m				
Construction Red	cord - Screen					
Screen ID: Layer: Slot: Screen Top Dept Screen End Dept Screen Material: Screen Depth UC Screen Diameter Screen Diameter	h:)M: UOM:	933424692 1 10 37.7900009155273 40.8400001525878 5 m cm 6.0				
Hole Diameter						
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM Hole Diameter UC		11853301 22.75 0.0 36.8800010681152 m cm	34			
Hole Diameter						
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM Hole Diameter UC		11853302 15.2299995422363 36.8800010681152 43.8899993896484 m cm	34			
<u>11</u> 3 o	of 4	WNW/200.2	109.9 / 4.42	4420 Trailroad Ottawa ON		SPL
Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Coo Contaminant Nar Contaminant Limi Contam Limit Fre Contaminant UN Environment Imp Nature of Impactu Receiving Mediu Receiving Mediu Receiving Env: MOE Response: Dt MOE Arvl on S MOE Resported D Dt Document Clo Incident Reason: Site Name: Site County/Distr Site Geo Ref Met Incident Summar Contaminant Qty	me: nit 1: Pag 1: No 1: Confirme: Scn: t: 6/25/201 Sed: fict: h: Ty:	1 ed Water Pollution		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Postal Code: Site Region: Site Region: Site Kegion: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:	Other 4420 Trailroad Ottawa Watercourse Spills	

50

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
<u>11</u>	4 of 4		WNW/200.2	109.9 / 4.42	4420 TRAIL ROAD IO NEPEAN ON	ot 8 con 4	WWIS
Well ID: Constructio Primary Wa Sec. Water I Final Well S Water Type: Casing Mate Audit No: Tag: Constructio Elevation (n Elevation R Depth to Be Well Depth: Overburden Pump Rate: Static Wate Flowing (Y// Flow Rate: Clear/Cloud	tter Use: Use: Status: erial: on Method: n): eliability: eliability: drock: n/Bedrock: r Level: N):	7199492 Abandone Z139877 A035404	d-Other		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	3/28/2013 TRUE Yes 1558 7 4420 TRAIL ROAD OTTAWA NEPEAN TOWNSHIP 008 04 RF	
PDF URL (N	-		https://d2khazk8e83	rdv.cloudfront.ne	et/moe_mapping/downloads	/2Water/Wells_pdfs/719\7199492.pd	lf

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: DP2BR:	1004269075
Spatial Status: Code OB:	
Code OB. Code OB Desc:	
Open Hole:	
Cluster Kind:	
Date Completed:	31-Jan-2013 00:00:00
Remarks:	
Elevrc Desc:	
Location Source Date:	
Improvement Location S	Source:
Improvement Location I	
Source Revision Comm	ent:
Supplier Comment:	

Annular Space/Abandonment Sealing Record

Plug ID:Layer:Plug From:Plug To:Plug Depth UOM:

1004961153 1 44.79999923706055 0.0 ft Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC: Location Method:

18 439452.00 5009032.00 UTM83 4 margin of error : 30 m - 100 m wwr

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Method of Cor</u> <u>Use</u>	nstruction & Well				
Method Const Method Const Method Const Other Method	ruction Code:	1004961152			
<u>Pipe Informati</u>	<u>on</u>				
Pipe ID: Casing No: Comment: Alt Name:		1004961146 0			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame	ter:	1004961150 inch			
Casing Depth		ft			
Construction	Record - Screen				
Screen ID: Layer: Slot: Screen Top De Screen End De Screen Materi Screen Depth Screen Diame Screen Diame	epth: al: UOM: ter UOM:	1004961151 ft inch			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind:		1004961149			
Water Found I Water Found I		ft			
Hole Diameter					
Hole ID: Diameter: Depth From: Depth To: Hole Depth U(1004961148 ft			
Hole Diameter	UOM:	inch			
<u>12</u>	1 of 1	WNW/202.6	109.8 / 4.39	6977 THIRD LINE ROAD, SOUTH lot 27 con 2 NORTH GOWER ON	WWIS

Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Well ID:		1536336			Data Entry Status:		
Construction	Date:				Data Src:		
Primary Wate	er Use:	Domestic			Date Received:	5/9/2006	
Sec. Water U					Selected Flag:	TRUE	
Final Well Sta	atus:	Water Supp	blv		Abandonment Rec:		
Water Type:			5		Contractor:	1558	
Casing Mater	rial:				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 Rel					Site Info:		
Depth to Bed	•				Lot:	027	
Well Depth:	10011.				Concession:	02	
Overburden/	Redrock:				Concession Name:	RF	
Pump Rate:	Bearbon.				Easting NAD83:		
Static Water Level:			Northing NAD83:				
Flowing (Y/N):			Zone:				
Flow Rate:		UTM Reliability:					
Clear/Cloudy					o na nenability.		

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:			
Leastion Course Dat			

Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

Formation ID:	933053930
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	77
Mat3: Mat3 Desc:	LOOSE

Мар Кеу	Number of Records	<i>Direction/ Distance (m)</i>	Elev/Diff (m)	Site	DB
Formation To Formation En Formation En	p Depth: Id Depth: Id Depth UOM:	0.0 3.6500000953674316 m	3		
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID. Layer: Color: General Color Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	r: n Material: p Depth:	933053931 2 GREY 14 HARDPAN 13 BOULDERS 79 PACKED 3.6500000953674316 14.020000457763672 m			
<u>Overburden a</u> Materials Inte					
Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation En	r: n Material: p Depth:	933053932 3 2 GREY 15 LIMESTONE 14.020000457763672 38.09000015258789 m	2		
Method Cons	truction Code:	961536336 5 Air Percussion			
<u>Pipe Informat</u>	ion				
Pipe ID: Casing No: Comment: Alt Name:		11560009 1			
<u>Construction</u> Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame		930879274 2 4 OPEN HOLE 16.760000228881836 38.09000015258789	5		

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diam Casing Depti		cm m			
Construction	n Record - Casing				
Casing ID:		930879273			
Layer:		1			
Material:		1			
Open Hole of		STEEL	7404		
Depth From: Depth To:		-0.44999998807907 16.7600002288818			
Casing Diam	otor:	15.8599996566772			
Casing Diam		cm	-0		
Casing Dept		m			
<u>Results of W</u>	ell Yield Testing				
Pump Test IL	D:	11569438			
Pump Set At	-	33.5200004577636			
Static Level:		4.65999984741210			
	After Pumping:	13.1999998092651			
	led Pump Depth:	22.8500003814697	27		
Pumping Rate		22.75			
	led Pump Rate:	22.75			
Levels UOM:		m			
Rate UOM:		LPM			
Water State	After Test Code:	1			
Water State		CLEAR			
Pumping Tes		1			
Pumping Du		2			
Pumping Du Flowing:	ration win:				
Draw Down a	& Recovery				
	-				
Pump Test D	Detail ID:	11617614			
Test Type:	-	Recovery			
Test Duration Test Level:	n:	1 10.9799995422363	20		
Test Level U	OM:	m	20		
<u>Draw Down a</u>	<u>& Recovery</u>				
Pump Test D	Detail ID:	11617618			
Test Type:		Recovery			
Test Duration	n:	3			
Test Level: Test Level U	OM:	8.5 m			
Draw Down a	& Recovery				
	-	11617640			
Pump Test D	etall ID:	11617619 Draw Down			
Test Type: Test Duration	n.	Draw Down 4			
Test Level:		8.25			
Test Level U	ОМ:	m			
Draw Down a	& Recovery				
Pump Test D	Detail ID:	11617624			
		wiresmentel Diek Infe			Order Net 22050200520

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	Ľ
Test Type:		Recovery			
Test Duration	:	10			
Test Level:		5.800000190734863			
Test Level UC	DM:	m			
Draw Down &	Recovery				
Pump Test De	etail ID:	11617634			
Test Type:		Recovery			
Test Duration	:	40			
Test Level:		4.800000190734863			
Test Level UC	DM:	m			
Draw Down &	Recovery				
Pump Test De	etail ID:	11617613			
Test Type:		Draw Down			
Test Duration		1			
Test Level:		5.690000057220459			
Test Level UC	DM:	m			
Draw Down &	Recovery				
Pump Test De	etail ID:	11617636			
Test Type:		Recovery			
Test Duration	:	50			
Test Level:		4.71999979019165			
Test Level UC	DM:	m			
Draw Down &	Recovery				
Pump Test De	etail ID:	11617620			
Test Type:		Recovery			
Test Duration	:	4			
Test Level:		7.699999809265137			
Test Level UC	DM:	m			
Draw Down &	Recovery				
Pump Test De	etail ID:	11617625			
Test Type:		Draw Down			
Test Duration	:	15			
Test Level:		11.25			
Test Level UC	DM:	m			
Draw Down &	Recovery				
Pump Test De	etail ID:	11617638			
Test Type:		Recovery			
Test Duration	:	60			
Test Level:		4.690000057220459			
Test Level UC	DM:	m			
	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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	11617617 Draw Down 3 7.78000020980835 m			
<u>Draw Down a</u>	<u>& Recovery</u>				
Pump Test D Test Type: Test Duratio Test Level: Test Level U	n:	11617623 Draw Down 10 10.27999973297119 m	1		
Draw Down a	<u>& Recovery</u>				
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	11617627 Draw Down 20 11.77999973297119 m	1		
Draw Down a	& Recovery				
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	11617629 Draw Down 25 12.17000007629394 m	5		
<u>Draw Down a</u>	<u>& Recovery</u>				
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	11617631 Draw Down 30 12.579999992370605 m	5		
<u>Draw Down a</u>	& Recovery				
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	11617637 Draw Down 60 13.050000190734863 m	3		
<u>Draw Down a</u>	<u>& Recovery</u>				
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	11617622 Recovery 5 7.130000114440918 m			
<u>Draw Down a</u>	& Recovery				
Pump Test D Test Type: Test Duratio Test Level:		11617628 Recovery 20 5.0			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Test Level UO	DM:	m				
Water Details						
Water ID: Layer: Kind Code: Kind:		934075050 1				
Water Found I Water Found I		35.6500015258789 m	06			
Hole Diameter	<u>.</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter		11681098 15.2299995422363 16.7600002288818 38.0900001525878 m cm	36			
Hole Diameter	:					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter		11681099 22.75 0.0 16.76000022888183 m cm	36			
<u>13</u>	1 of 2	WNW/206.8	109.8 / 4.39	4420 TRAIL RD lot 8 NEPEAN ON	e con 4	WWIS
Well ID: Construction I Primary Water Sec. Water Us Final Well Star Water Type: Casing Materia Audit No: Tag: Construction I Elevation (m): Elevation Relia Depth to Bedr Well Depth: Overburden/B Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy: PDF URL (Mag	r Use: Com e: Indus tus: Wate al: Z469 A035 Method: ability: rock: evel:	merical strial r Supply 96 456	3rdv.cloudfront.n	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	7/11/2006 TRUE 1558 3 4420 TRAIL RD OTTAWA NEPEAN TOWNSHIP 008 04 RF	f
	-	πιρο.//αΖκπαζκοθος	nav.ciodunont.n		«∠vvater/vvens_puis/155/1550460.µu	1
Additional Dei		0000/00/07				
Well Complete Year Complete Depth (m): Latitude: Longitude:		2006/06/27 2006 114.29 45.2321286823215 -75.7715514048162				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Path:		153\1536460.pdf				
Bore Hole Info	ormation					
Bore Hole ID: DP2BR:	11550	526		Elevation: Elevrc:		
Spatial Status				Zone:	18	
Code OB:	-			East83:	439436.00	
Code OB Des	c:			North83:	5009027.00	
Open Hole:				Org CS:	UTM83	
Cluster Kind:				UTMRC:	3	
Date Complet	ed: 27-Jur	2006 00:00:00		UTMRC Desc:	margin of error : 10 - 30 m	
Remarks:				Location Method:	wwr	
Elevrc Desc:	- .					
Location Sou						
	Location Source: Location Method:					
	ion Comment:					
Supplier Com						
Overburden a	and Rodrock					
Materials Intel						
Formation ID:		933057411				
Layer:		3				
Color:		2				
General Color	r:	GREY				
Mat1:		11				
Most Commo	n Material:	GRAVEL				
Mat2:						
Mat2 Desc: Mat3:		BOULDERS 77				
Mat3 Desc:		LOOSE				
Formation To	n Denth:	31.07999992370605	55			
Formation En		34.13000106811523				
	d Depth UOM:	m				
<u>Overburden a</u>						
Materials Inte	<u>rval</u>					
Formation ID:		933057410				
Layer:		2				
Color:		2				
General Color	r:	GREY				
Mat1:		28				
Most Commo	n Material:	SAND				
Mat2:		79 BACKED				
Mat2 Desc: Mat3:		PACKED				
Mat3: Mat3 Desc:						
Formation To	p Depth:	20.71999931335449	92			
Formation En		31.07999992370605				
	d Depth UOM:	m				
Overburden a Materials Inte						
Formation ID:		933057409				
Layer:		1				
Color:		6				
General Color	:	BROWN				
Mat1:		28				

• •	mber of cords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Most Common Mat	erial:	SAND			
Mat2: Mat2 Deces		79 PACKED			
Mat2 Desc: Mat3:		PACKED			
Mat3 Desc:					
Formation Top Dep	oth:	0.0			
Formation End Dep		20.719999313354492	2		
Formation End Dep	oth UOM:	m			
Overburden and Bo Materials Interval	edrock				
Formation ID:		933057412			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1: Most Common Mat	orial	15 LIMESTONE			
Mat2:	enai.	17			
Mat2 Desc:		SHALE			
Mat3:		71			
Mat3 Desc:		FRACTURED			
Formation Top Dep	oth:	34.130001068115234			
Formation End Dep Formation End Dep		35.349998474121094 m	ł		
ronnation End Dep					
<u>Overburden and Ba Materials Interval</u>	edrock				
Formation ID:		933057413			
Layer:		5			
Color: General Color:		2 GREY			
Mat1:		15			
Most Common Mat	erial:	LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:		75			
Mat3 Desc:		LIGHT-COLOURED			
Formation Top Dep Formation End Dep		35.349998474121094 96.0	ł		
Formation End Dep		m			
<u>Overburden and B</u>	edrock				
<u>Materials Interval</u>					
Formation ID: Layer:		933057414 6			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Mat	erial:	SANDSTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3: Mat3 Desc:					
Formation Top Dep	oth:	96.0			
Formation End Dep	oth:	114.29000091552734	ļ.		
Formation End Dep	oth UOM:	m			
<u>Annular Space/Aba Sealing Record</u>	andonment				
61 erisir	n <u>fo.com</u> En	vironmental Risk Inform	mation Service	es	Order No: 22050200589

Map Key Numb Reco		L
Plug ID:	933294499	
Layer:	1	
Plug From:	40.06999969482422	
Plug To:	0.0	
Plug Depth UOM:	m	
<u>Method of Constructions Method of Constructions (Method of Constructions)</u>	on & Well	
Method Construction	ID: 961536460	
Method Construction		
Method Construction		
Other Method Constru		
Pipe Information		
Pipe ID:	11560133	
Casing No:	1	
Comment:		
Alt Name:		
Construction Record	Casing	
Casing ID:	930879962	
Layer:	4	
Material:	4	
Open Hole or Materia		
Depth From:	69.79000091552734	
Depth To:	114.29000091552734	
Casing Diameter:		
Casing Diameter UON Casing Depth UOM:	l: cm m	
Construction Record	· Casing	
Casing ID:	930879961	
Layer:	3	
Material:	1	
Open Hole or Materia	: STEEL	
Depth From:	-0.7599999904632568	
Depth To:	69.79000091552734	
Casing Diameter:	15.859999656677246	
Casing Diameter UON		
Casing Depth UOM:	m	
Construction Record	<u>Casing</u>	
Casing ID:	930879960	
Layer: Matarial	2	
Material: Open Hele or Materia	1 STEEL	
Open Hole or Materia Depth From:	: STEEL -0.30000001192092896	
Depth From: Depth To:	40.06999969482422	
Casing Diameter:	40.009999909402422 21.0	
Casing Diameter UON		
Casing Depth UOM:	m	
Construction Record	· Casing	
Casing ID:	930879959	
_	com Environmental Risk Information Services	Order No: 22050200

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB	
Layer: Material: Open Hole o Depth From: Depth To: Casing Diam Casing Depth	eter: eter UOM:	1 1 STEEL -0.150000005960464 4.409999847412109 25.10000038146972 cm m	1				
Water Details	5						
Water ID: Layer: Kind Code: Kind: Water Found	Donth	934077249 2 71.62000274658203					
Water Found Water Found		m	1				
Water Details	5						
Water ID: Layer: Kind Code: Kind:		934077250 3					
Water Found Water Found		113.0699996948242 m	2				
Water Details	5						
Water ID: Layer: Kind Code: Kind: Water Found Water Found		934077248 1 70.0999984741211 m					
Hole Diamete	er						
Hole ID: Diameter: Depth From: Depth To: Hole Depth L Hole Diamete	IOM:	11681235 21.89999961853027 40.06999969482422 69.79000091552734 m cm					
Hole Diamete	<u>ər</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth L Hole Diamete	IOM:	11681234 27.30999946594238 0.0 40.06999969482422 m cm					
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U		11681236 15.22999954223632 69.79000091552734 114.2900009155273 m					
63	erisinfo.com En	vironmental Risk Infor	mation Service	S	(Drder No: 22050200589	
Мар Кеу	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
---	-----------------	-----------	--------------------------------------	--------------------	---------------------------------	-----------------------------------	------
Hole Diamet	er UOM:		cm				
<u>13</u>	2 of 2		WNW/206.8	109.8 / 4.39	4420 TRAIL ROAD IO NEPEAN ON	ot 9 con 4	WWIS
Well ID: Construction		7176399			Data Entry Status: Data Src:		
Primary Wat					Date Received:	2/9/2012	
Sec. Water L		A handana	d Quality		Selected Flag:	TRUE	
Final Well St Water Type:	atus:	Abandone	a-Quality		Abandonment Rec: Contractor:	Yes 1558	
Casing Mate	rial·				Form Version:	7	
Audit No:		Z135411			Owner:	,	
Tag:		A035458			Street Name:	4420 TRAIL ROAD	
Construction	n Method:				County:	OTTAWA	
Elevation (m):				Municipality:	NEPEAN TOWNSHIP	
Elevation Re	-				Site Info:		
Depth to Bec	drock:				Lot:	009	
Well Depth: Overburden/	/Podrook				Concession: Concession Name:	04 RF	
Pump Rate:	Bearock:				Easting NAD83:	KF	
Static Water	Level:				Northing NAD83:		
Flowing (Y/N					Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloudy	/:						
PDF URL (M	ap):		https://d2khazk8e83	Brdv.cloudfront.ne	et/moe_mapping/downloads/	/2Water/Wells_pdfs/717\7176399.pd	df
<u>Additional D</u> Well Comple Year Comple	ted Date:		2011/10/12 2011				
Depth (m):							
Latitude:			45.2321286823215				
Longitude: Path:			-75.7715514048162 717\7176399.pdf	2			
<u>Bore Hole In</u>	formation						
Bore Hole ID DP2BR:):	10036907	55		Elevation: Elevrc:		
Spatial Statu	ıs:				Zone:	18	
Code OB:					East83:	439436.00	
Code OB De	SC:				North83:	5009027.00	
Open Hole: Cluster Kind					Org CS: UTMRC:	UTM83 4	
Date Comple		12-Oct-20	11 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks:		12 000 20	11 00.00.00		Location Method:	wwr	
Elevrc Desc:	•						
Location Sol	urce Date:						
Improvemen							
Improvemen							
Source Revi Supplier Cor		ient:					
<u>Annular Spa</u> Sealing Reco		nment_					
Seamly Reco			1001000100				
			1004060189				
Plug ID:							
Layer:			1	24			
				34			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug Depth U	OM:	m			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	truction Code:	1004060188			
<u>Pipe Informa</u>	tion				
Pipe ID: Casing No: Comment: Alt Name:		1004060182 0			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diamo	eter:	1004060186			
Casing Diam Casing Depth	eter UOM:	cm m			
Construction	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mater	Depth:	1004060187			
Screen Depth Screen Diamo Screen Diamo	n UOM: eter UOM:	m cm			
Water Details	I				
Water ID: Layer: Kind Code: Kind:		1004060185			
Water Found Water Found	Depth: Depth UOM:	m			
Hole Diamete	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To:		1004060184			
Hole Depth U Hole Diamete	OM: or UOM:	m cm			

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
<u>14</u>	1 of 39		NNW/216.0	100.2 / -5.27	City of Ottawa Part of Lot 9, Conces Ottawa ON K0A 2Z0	ssion 4, Rideau Front	WDS
Approval No Mob Unit Ce EBR Registri Status: Facility Type Record Type Link Source Project Type Application Issue Date: Input Date: Date Receiv Est Closure Mobile Capa Mobile Units Mobile Desc Prop City:	ert No: ry No: e: e: e: s: s: Status: Pate: acity: s: cription:	ECA IDS	ed and/or Replaced E DISPOSAL SITES		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 Vol (m ³): Process Vol (m ³): Process Feed (m ³): Site Concession: Site Region/County: SWP Area Name: MOE District: District Office: Latitude:	Rideau Valley Ottawa 45.2337	
Prop Postal Prop Phone Serial Link: Approval Ty Proponent:	:		ECA-WASTE DISF	POSAL SITES	Longitude: Geometry X: Geometry Y:	-75.7681	
Prop Address Proponent C Full Address Site Lot: Waste Class Waste Class Waste Type Waste Type Waste Desc Landfill Mon Landfill Ctrl Site Closing Project Desc Municipalitic Approval Desc Other Appro PDF URL: PDF Site Loo	County/Dist s: s: code: s: other: ription: nitoring: Type: 1 Description: cription: es Served: escription: ovals/Permit	n:	Part of Lot 9, Conc		Front gov.on.ca/instruments/1611	-6UGR93-14.pdf	
<u>14</u>	2 of 39		NNW/216.0	100.2 / -5.27	Plasco Trail Road In Part of Lot 9, Conces Ottawa ON	c. ssion 4, Rideau Front	WDS

Total Area (ha): Landfill Cap (m³):

Transfer Area (ha):

Transfer Cap (m³):

Transfer Cert No:

Inciner. Area (ha):

Process Area (m³):

Process Cap (m³/d): Process Vol (m³):

Process Feed (m³):

Site Region/County: SWP Area Name:

Rideau Valley

Ottawa

Site Concession:

MOE District:

Inciner. Cap (t):

Approval No: Mob Unit Cert No: EBR Registry No: Status: Facility Type: Record Type: Link Source: Project Type: **Application Status:** Issue Date: Input Date: Date Received: Est Closure Date: Mobile Capacity: Mobile Units:

66

Revoked and/or Replaced ECA IDS WASTE DISPOSAL SITES

2006-12-01

3166-6TYMDZ

erisinfo.com | Environmental Risk Information Services

Order No: 22050200589

Map Key	Number Records		Elev/Diff (m)	Site		D
Mobile Descr	iption:			District Office:		
Prop City:				Latitude:	45.2337	
Prop Postal:				Longitude:	-75.7681	
Prop Phone:				Geometry X:		
Serial Link:				Geometry Y:		
Approval Typ	be:	ECA-WASTE DISF	POSAL SITES			
Proponent: Prop Address	~ .					
Proponent Co		ict:				
Full Address:		Part of Lot 9, Conc	ession 4 Rideau	Front		
Site Lot:				Ton		
Waste Class	Code:					
Waste Class:						
Waste Type:						
Waste Type C						
Waste Descri						
Landfill Moni	•					
Landfill Ctrl T						
Site Closing I						
Project Descı Municipalities						
Municipalities Approval Des						
Other Approv		s-				
PDF URL:			senvironment.ene	.gov.on.ca/instruments/9381	1-6RGHCB-14.pdf	
PDF Site Loca	ation:					
<u>14</u>	3 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road In Part of Lot 9, Conce Ottawa ON K2K 3G7	ssion 4, Rideau Front	WD
				Ollawa ON NZK 3G7		
Approval No:		3166-6TYMDZ		Total Area (ha):		
Mob Unit Cer	+ No:			Landfill Cap (m³):		
EBR Registry				Transfer Area (ha):		
EBR Registry Status:	v No:	Revoked and/or Replaced		Transfer Area (ha): Transfer Cap (m³):		
EBR Registry Status: Facility Type:	/ No:			Transfer Area (ha): Transfer Cap (m³): Transfer Cert No:		
EBR Registry Status: Facility Type: Record Type:	• No:	ECA		Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha):		
EBR Registry Status: Facility Type: Record Type: Link Source:	/ No:	ECA IDS		Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t):		
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type:	• No:	ECA		Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t): Process Area (m³):		
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S	• No:	ECA IDS WASTE DISPOSAL SITES		Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha): Inciner. Cap (t): Process Area (m³): Process Cap (m³/d):		
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date:	• No:	ECA IDS		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):		
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date:	v No: : : Status:	ECA IDS WASTE DISPOSAL SITES		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):		
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive	v No: : : Status: d:	ECA IDS WASTE DISPOSAL SITES		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:		
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D	v No: Status: d: Date:	ECA IDS WASTE DISPOSAL SITES		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):	Rideau Valley	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D Mobile Capac	v No: Status: d: Date: Sity:	ECA IDS WASTE DISPOSAL SITES		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:	Rideau Valley Ottawa	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D Mobile Capac Mobile Units:	v No: Status: d: Date: Sity:	ECA IDS WASTE DISPOSAL SITES		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:	3	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure E Mobile Capac Mobile Units: Mobile Descri Prop City:	v No: Status: d: Date: Sity:	ECA IDS WASTE DISPOSAL SITES		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: MOE District: District Office: Latitude:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure L Mobile Capac Mobile Units: Mobile Descri Prop City: Prop Postal:	v No: Status: d: Date: Sity:	ECA IDS WASTE DISPOSAL SITES		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: MOE District: District Office: Latitude: Longitude:	Ottawa	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D Mobile Capac Mobile Descri Prop City: Prop Postal: Prop Phone:	v No: Status: d: Date: Sity:	ECA IDS WASTE DISPOSAL SITES		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: MOE District: District Office: Latitude: Longitude: Geometry X:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D Mobile Capac Mobile Capac Mobile Descri Prop City: Prop Postal: Prop Phone: Serial Link:	v No: Status: d: Date: sity: iption:	ECA IDS WASTE DISPOSAL SITES 2007-09-05		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: MOE District: District Office: Latitude: Longitude:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D Mobile Capac Mobile Descri Prop City: Prop Postal: Prop Phone: Serial Link: Approval Typ	v No: Status: d: Date: sity: iption:	ECA IDS WASTE DISPOSAL SITES	POSAL SITES	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: MOE District: District Office: Latitude: Longitude: Geometry X:	Ottawa 45.2337	
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EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure D Mobile Capac Mobile Descri Prop City: Prop Postal: Prop Postal: Prop Phone: Serial Link: Approval Typ Proponent: Prop Address	v No: Status: Status: d: Date: city: iption: be: s:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP	POSAL SITES	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: MOE District: District Office: Latitude: Longitude: Geometry X:	Ottawa 45.2337	
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EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure L Mobile Capac Mobile Units: Mobile Descri Prop Postal: Prop Postal: Prop Postal: Prop Postal: Prop Postal: Prop Address Proponent Co Full Address: Site Lot:	v No: Status: d: Date: city: iption: be: s: pounty/Distri	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure E Mobile Capac Mobile Units: Mobile Descri Prop Piote Prop Postal: Prop Phone: Serial Link: Approval Typ Proponent: Prop Address Proponent Co Full Address Site Lot: Waste Class	v No: Status: Status: d: Date: city: iption: be: s: pounty/District Code:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure L Mobile Capac Mobile Capac Mobile Capac Mobile Descri Prop Postal: Prop Postal: Prop Postal: Prop Phone: Serial Link: Prop Address Proponent: Prop Address Site Lot: Waste Class:	v No: Status: Status: d: Date: city: iption: be: s: pounty/District Code:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive: Est Closure E Mobile Capac Mobile Units: Mobile Descri Prop City: Prop Postal: Prop Postal: Prop Postal: Prop Address Proponent: Frop Address Site Lot: Waste Class Waste Class: Waste Class:	v No: Status: Status: d: Date: city: iption: pe: s: ounty/District Code: Dther:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure E Mobile Capac Mobile Capac Mobile Capac Mobile Descri Prop Postal: Prop Postal: Prop Postal: Prop Postal: Prop Address Proponent: Ste Lot: Waste Class Waste Class Waste Class Waste Class:	v No: Status: Status: Date: Sity: piption: pe: S: punty/District Code: Code: Dther: ption:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receivee Est Closure L Mobile Capac Mobile Capac Mobile Units: Mobile Descri Prop Postal: Prop Postal: Prop Postal: Prop Postal: Prop Postal: Prop Address Proponent: Site Lot: Waste Class: Waste Class: Waste Class: Waste Class: Waste Class: Waste Class: Waste Class:	v No: Status: Status: d: Date: Sity: iption: code: Code: Dther: iption: toring:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP		Transfer Area (ha): Transfer Cap (m ³): Transfer Cap (m ³): 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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	
EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure E Mobile Capac Mobile Capac Mobile Units: Mobile Descri Prop Postal: Prop Postal: Prop Postal: Prop Address Proponent: Serial Link: Approval Typ Proponent: Ste Lot: Waste Class: Waste Class: Waste Class: Waste Class:	v No: Status: Status: d: Date: sity: iption: code: Code: Dther: ption: toring: Type:	ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP ict: Part of Lot 9, Conc		Transfer Area (ha): Transfer Cap (m ³): Transfer Cap (m ³): 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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Ottawa 45.2337	

Мар Кеу	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		D
Project Desc Municipalitie Approval De Other Appro PDF URL: PDF Site Loc	es Served: scription: vals/Permits.					
<u>14</u>	4 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc Part of Lot 9 Conces Ottawa ON K2K 3G8		WDS
Approval No Mob Unit Ce EBR Registr Status: Facility Type Record Type Ink Source Project Type Application Ssue Date: Application Ssue Date: Date Receive Store Closure Mobile Capa Mobile Desc Prop City: Prop Postal: Prop Phone:	rt No: y No: :: :: :: :: Status: Status: di: Date: city: :: ription:	3166-6TYMDZ Revoked and/or Replaced ECA IDS WASTE DISPOSAL SITES 2008-01-28		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: MOE District: District Office: Latitude: Longitude: Geometry X:	Rideau Valley Ottawa 45.2337 -75.7681	
erial Link: pproval Typ proponent: prop Addres	pe: :s:	ECA-WASTE DIS	POSAL SITES	Geometry Y:		
Full Address Site Lot: Vaste Class Vaste Class Vaste Type Vaste Descr andfill Mon .andfill Ctrl Site Closing Project Desc Aunicipalitie Approval De	Code: : ofther: iption: itoring: Type: Description: ses Served: scription: vals/Permits.	Part of Lot 9 Conc	ession 4 Rideau F	ront gov.on.ca/instruments/9600	-79VMQF-14.pdf	
<u>14</u>	5 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Ind Rideau Front Ottawa ON K2K 3G7	2.	WD
Approval No Mob Unit Ce EBR Registr Status: Facility Type Record Type	rt No: y No: e:	3166-6TYMDZ Revoked and/or Replaced ECA		Total Area (ha): Landfill Cap (m³): Transfer Area (ha): Transfer Cap (m³): Transfer Cert No: Inciner. Area (ha):		

Map Key	Number Records		Elev/Diff n) (m)	Site		DE
Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure L Mobile Capad Mobile Descr Prop City: Prop Postal: Prop Phone: Serial Link:	Status: d: Date: sity:	IDS WASTE DISPOSAL SITES 2008-07-31	; ;	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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Rideau Valley Ottawa 45.2337 -75.7681	
Approval Typ Proponent: Prop Address Proponent Co	s:	ECA-WASTE DI	SPOSAL SITES	Geometry 1.		
Waste Type: Waste Type (Waste Descri Landfill Moni Landfill Ctrl 1 Site Closing I Project Desc Municipalitie: Approval Des Other Approv PDF URL: PDF Site Loc	iption: toring: Type: Description ription: s Served: scription: vals/Permits	s:	ssenvironment.ene.	gov.on.ca/instruments/8787-7	7FHGV5-14.pdf	
<u>14</u>	6 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7		WDS
Approval No: Mob Unit Cer EBR Registry Status: Facility Type: Record Type: Link Source: Project Type: Application S Issue Date: Input Date: Date Receive Est Closure L Mobile Capad Mobile Descr Prop City: Prop Postal: Prop Phone: Serial Link: Approval Typ Proponent: Prop Address	t No: No: Status: Status: d: Date: sity: iption: be: s:	3166-6TYMDZ Revoked and/or Replaced ECA IDS WASTE DISPOSAL SITES 2008-12-09 ECA-WASTE DIS		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Rideau Valley Ottawa 45.2337 -75.7681	
Proponent Co Full Address	ounty/Distri	<i>ct:</i> Rideau Front				

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
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<u>14</u>	7 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7		WDS
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<u>14</u>	9 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7		WDS
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<u>14</u>	11 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7		WDS
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<u>14</u>	12 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Part of Lot 9 Concessi Ottawa ON K2K 3G8	on 4 Rideau Front	WDS
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Record Typ		ECA		Latitude:	45.2337	
Link Source		IDS		Geometry X:		
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14 30 of 39		NNW/216.0	100.2 / -5.27	Plasco Trail Road	Inc.	50
_					cession 4, Rideau Front	ECA
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Approval N		4152-84KLK5		MOE District:	Ottawa	
Approval D	ate:	2010-05-28		City:		
Status:		Amended		Longitude:	-75.7681	
Record Typ		ECA		Latitude:	45.2337	
Link Source		IDS		Geometry X:		
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Business N	ame:	Plasco Trail Road		Front		
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14	31 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road	Ino	
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Approval N	o:	6925-6REN9E		MOE District:	Ottawa	
Approval D		2008-12-02		City:	e la la	
Status:		Revoked and/or Replaced		Longitude:	-75.7681	
Record Typ	e:	ECA		Latitude:	45.2337	
Link Source		IDS		Geometry X:		
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Мар Кеу	Number Records		Elev/Diff (m)	Site		DI
<u>14</u>	33 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa Part of Lot 9, Conce Ottawa ON K1P 1J1	ssion 4, Rideau Front	ECA
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<u>14</u>	34 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road In Part of Lot 9, Conce Ottawa ON K2K 3E7	ssion 4, Rideau Front	ECA
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<u>14</u>	35 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road In Part of Lot 9, Conce Ottawa ON K2K 3G7	ssion 4, Rideau Front	WDS
Approval No Mob Unit Cel EBR Registr Status: Facility Type Record Type Link Source: Project Type Application S Issue Date: Input Date: Date Receive Est Closure I Mobile Capa Mobile Units Mobile Desc Prop City: Prop Postal: Prop Phone: Serial Link: Approval Tyj Proponent:	rt No: y No: :: :: Status: Date: city: :: ription:	3166-6TYMDZ Revoked and/or Replaced ECA IDS WASTE DISPOSAL SITES 2007-09-05 ECA-WASTE DISP	OSAL SITES	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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Rideau Valley Ottawa 45.2337 -75.7681	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Prop Addres	s:				
Proponent C	ounty/District:				
Full Address		Part of Lot 9, Conce	ssion 4, Rideau I	ront	
Site Lot:					
Waste Class	Code:				
Waste Class	:				
Waste Type:					
Waste Type	Other:				
Waste Descr	iption:				
Landfill Mon					
Landfill Ctrl	Туре:				
•	Description:				
Project Desc	•				
Municipalitie					
Approval De	•				
	vals/Permits:				
PDF URL:					
PDF Site Loc					

<u>14</u>	36 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc. Rideau Front Ottawa ON K2K 3E7		WDS
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Approval Ty Proponent: Prop Addres Proponent (ss:	ECA-WASTE DISP	OSAL SITES			
Full Address Site Lot: Waste Class Waste Class Waste Type Waste Type Waste Desc Landfill Mor Landfill Ctrl Site Closing Project Desc Municipalitie Approval Des Other Appro PDF URL: PDF Site Lo	s: s Code: s: other: ription: nitoring: Type: J Description: cription: es Served: escription: ovals/Permit	Rideau Front				

Мар Кеу	Number Records		Elev/Diff (m)	Site		DE
<u>14</u>	37 of 39	NNW/216.0	100.2 / -5.27	Plasco Trail Road Inc Part of Lot 9, Conces Ottawa ON K2K 3E7	c. ssion 4, Rideau Front	WDS
Full Address	ert No: ry No: e: e: e: Status: Date: acity: s: cription: : ype: ss: County/Distric	3166-6TYMDZ Revoked and/or Replaced ECA IDS WASTE DISPOSAL SITES 2011-01-13 ECA-WASTE DISP ct: Part of Lot 9, Conc		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: MOE District: District Office: Latitude: Longitude: Geometry X: Geometry Y:	Rideau Valley Ottawa 45.2337 -75.7681	
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14	38 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa		WDS

		Ottawa
Approval No:	A461301	Total Are
Mob Unit Cert No:		Landfill
EBR Registry No:		Transfer
Status:	Approved	Transfer
Facility Type:		Transfer
Record Type:	ECA	Inciner.
Link Source:	IDS	Inciner.
Project Type:	WASTE DISPOSAL SITES	Process
Application Status:		Process
Issue Date:	2020-09-08	Process
Input Date:		Process
Date Received:		Site Con
Est Closure Date:		Site Reg

Ottawa ON K0A 2Z0

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 Vol (m³): Process Feed (m³): Site Concession: Site Region/County:

Map Key	Numbe Record		Elev/Diff (m)	Site		DB
Mobile Cap				SWP Area Name:	Rideau Valley	
Mobile Uni				MOE District:	Ottawa	
Mobile Des	scription:			District Office:	45.2337	
Prop City: Prop Posta				Latitude: Longitude:	45.2337 -75.7681	
Prop Posta				Geometry X:	-75.7661	
Serial Link				Geometry Y:		
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Proponent.		LOA WAOTE DIGI	OUALONEO			
Prop Addre						
•	County/Dist	rict [.]				
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Site Lot:						
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Site Closin	g Descriptio	n:				
Project De						
	ies Served:					
	Description:					
	rovals/Permi	ts:				
PDF URL:			senvironment.ene.	gov.on.ca/instruments/351	12-BHDJRX-14.pdf	
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<u>14</u>	39 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa		WDS
				Ottawa ON K0A 2Z	0	
Approval N		A461301		Total Area (ha):		
Mob Unit C		A-01001		Landfill Cap (m ³):		
EBR Regis				Transfer Area (ha):		
EBR Regis Status:	ay 140.	Revoked and/or Replaced		Transfer Cap (m³):		
Status. Facility Tyj	no [,]	Revorced and/or Replaced		Transfer Cap (III°).		
Record Ty		ECA		Inciner. Area (ha):		
Link Sourc		IDS		Inciner. Cap (t):		
Project Typ		WASTE DISPOSAL SITES		Process Area (m ³):		
FIUJECLIY	ue.	WASTE DISPUSAL SITES		Process Area (III°):		

<u>14</u> 39 of 39	NNW/216.0	100.2 / -5.27	City of Ottawa		WDS
			Ottawa ON K0A 2Z0		
Approval No: Mob Unit Cert No: EBR Registry No:	A461301		Total Area (ha): Landfill Cap (m³): Transfer Area (ha):		
Status: Facility Type:	Revoked and/or Replaced		Transfer Cap (m³): Transfer Cert No:		
Record Type: Link Source:	ECA IDS		Inciner. Area (ha): Inciner. Cap (t):		
Project Type: Application Status:	WASTE DISPOSAL SITES		Process Area (m³): Process Cap (m³/d):		
Issue Date: Input Date: Date Received:	2019-10-08		Process Vol (m ³): Process Feed (m ³): Site Concession:		
Est Closure Date: Mobile Capacity: Mobile Units:			Site Region/County: SWP Area Name: MOE District:	Rideau Valley Ottawa	
Mobile Description: Prop City: Prop Postal:			District Office: Latitude: Longitude:	45.2337 -75.7681	
Prop Phone: Serial Link:			Geometry X: Geometry Y:		
Approval Type: Proponent: Prop Address:	ECA-WASTE DISF	OSAL SITES			
Proponent County/Dis Full Address: Site Lot:	trict:				
Waste Class Code: Waste Class: Waste Type:					
Waste Type Other: Waste Description: Landfill Monitoring:					

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
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Municipaliti							
Approval De							
Other Appro	ovals/Perm	its:					
PDF URL: PDF Site Lo							
T DI GRE LO	cation.						
<u>15</u>	1 of 1		ENE/242.9	109.6 / 4.12	lot 8 con 4 ON		wwis
Well ID:		1517287			Data Entry Status:		
Constructio	n Date:				Data Src:	1	
Primary Wat		Municipal			Date Received:	4/8/1980	
Sec. Water l		0			Selected Flag:	TRUE	
Final Well S		Water Sup	pply		Abandonment Rec:	1005	
Water Type: Casing Mate					Contractor: Form Version:	1365 1	
Audit No:	- iai.				Owner:	I	

Clear/Cloudy: PDF URL (Map):

Construction Method:

Elevation Reliability:

Overburden/Bedrock:

Depth to Bedrock:

Static Water Level:

Elevation (m):

Well Depth:

Pump Rate:

Flow Rate:

Flowing (Y/N):

Tag:

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517287.pdf

Street Name: County:

Municipality:

Concession:

Concession Name:

Easting NAD83:

Northing NAD83:

UTM Reliability:

Site Info:

Lot:

Zone:

OTTAWA

008

04

RF

NEPEAN TOWNSHIP

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

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Bore Hole ID: DP2BR:	10039164	Elevation: 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:			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden Materials Inte	<u>and Bedrock</u> erval				
Formation IE Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation E Formation E	or: on Material: op Depth:	931034684 3 6 BROWN 28 SAND 12 STONES 11 GRAVEL 60.0 112.0 ft			
<u>Overburden</u> <u>Materials Int</u>	<u>and Bedrock</u> erval				
Formation IE Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation E Formation E	or: on Material: op Depth:	931034683 2 6 BROWN 08 FINE SAND 28.0 60.0 ft			
	and Bedrock	n			
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc: Formation To Formation E	o: or: on Material: op Depth:	931034682 1 6 BROWN 28 SAND 12 STONES 13 BOULDERS 0.0 28.0 ft			
<u>Overburden</u> Materials Inte	<u>and Bedrock</u> erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc:	or:	931034685 4 6 BROWN 28 SAND 12 STONES			

Mark J Dess:FRACTUREDFormation Ful Opphi:112.0Formation End Dephi:127.0Formation End Dephi UOW:127.0Method C Construction & WallUseSelisi7287Method Construction Code:4Method Construction Code:4Method Construction Code:4Method Construction:Rotary (Air)Other Method Construction:Rotary (Air)Pipe ID:0587734Casing No:1Construction:1Air Name:300068585Casing ID:930068585Layer:1Air Name:1Deph Hole on Material:5 TEELDeph Hole on Material:5 TEELDeph Hole on Material:1Construction:127.0Construction:105Payse:10Casing Dometer:6.0Casing Dometer:6.0Casing Dometer:50.0Payse:10Stric Lave:3.0Final Level After Pumping:50.0Pump Test Devid After Pumping:50.0Pump Test Method:1Recommended Pump Degit:50.0Pumping Duration Mit:0Pumping Duration	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Use 961517287 Method Construction Code 4 Method Construction: Rolary (Air) Other Method Construction: Rolary (Air) Pipe Information 1 Pipe Information 1 Other Method Construction: 1 Casing No: 1 Common: 1 Construction Record - Casine 1 Construction Material: 1 Construction Material: 1 Open Holo or Material: 1 Results of Well Yield Testing 90 Results of Well Yield Testing 90 Results of Well Yield Testing 90 Pump Test ID: 90 Stoic Level: 90 Resource After Pumping: 50.0 Pumping Pum Retu: 50.0 Resource After Test Code: 1 Returb UOM: 1	Formation E	nd Depth:	FRACTURED 112.0 127.0			
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Test Level: 50.0 Test Level UOM: ft	Test Type:	n-				
Test Level UOM: ft	Test Duration	u.				
<u>Draw Down & Recovery</u>		ОМ:				
	<u>Draw Down 8</u>	<u>& Recovery</u>				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test D Test Type: Test Duratio Test Level: Test Level U	n:	934383648 Draw Down 30 50.0 ft			
<u>Draw Down </u>	& Recovery				
Pump Test D Test Type: Test Duratio Test Level: Test Level U	n:	934102806 Draw Down 15 50.0 ft			
<u>Draw Down o</u>	& Recovery				
Pump Test E Test Type: Test Duratio Test Level: Test Level U	n:	934644728 Draw Down 45 50.0 ft			
Water Detail	<u>S</u>				
Water ID: Layer: Kind Code: Kind: Water Found Water Found	l Depth: l Depth UOM:	933473726 1 1 FRESH 120.0 ft			

Unplottable Summary

Total: 58 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
СА	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
СА	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
СА	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
СА	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	
СА	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
СА	Plasco Trail Road Inc.		Ottawa ON	
CA	Briarridge Sewage Pumping Station	Lot 9, Concession 4	Ottawa ON	
СА	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
СА	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
СА	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
СА	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	
СА	Tenth Line Development Inc.	Sandhill Rd Kanata	Ottawa ON	

СА	Daniel Patrick O'Brien	Part Lot 9, Concession 3, at Manotick Station	Ottawa ON	
СА	Plasco Trail Road Inc.	Rideau Front	Ottawa ON	
CA	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
СА	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
СА	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

Unplottable Report

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

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

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

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: **Client Postal Code: Project Description:** Contaminants: **Emission Control:**

6925-6REN9E 2008 10/23/2008 Air Revoked and/or Replaced

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

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address:** Client City: Client Postal Code: **Project Description:** Contaminants: **Emission Control:**

4152-84KLK5 2010 5/28/2010 Air Amended

Database:

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



3807-62PHBL



erisinfo.com | Environmental Risk Information Services



CA



Database: CA

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

<u>Site:</u> Kanata Research Park Corporation Ottawa ON

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

<u>Site:</u> Kanata Research Park Corporation Plan 4M-1203, Blocks 1 to 17 Ottawa ON

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

<u>Site:</u> Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON

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

Database: CA

> Database: CA

Site: Plasco Trail Road Inc. Ottawa ON

4315-8JVP3K 2011

10/24/2011

Air Approved

Certificate #: Application Year: Issue Date: Approval Type: Status: 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

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: **Client Postal Code: Project Description:** Contaminants: **Emission Control:**

1586-4WKNNQ 01 5/18/01 Industrial air Approved New Certificate of Approval Tenth Line Development Inc. 210 Gladstone Avenue, Suite 2001 Ottawa K2P 0Y6 This application is for a Certificate of Approval for a diesel generator.

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

Certificate #: 6925-6REN9E Application Year: 2008 Issue Date: 12/2/2008 Approval Type: Air Revoked and/or Replaced Status: 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

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address:**

6925-6REN9E 2009 3/31/2009 Air Revoked and/or Replaced

94

CA



Database: CA

Database:

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

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address:** Client City: Client Postal Code: **Project Description:** Contaminants: **Emission Control:**

Plasco Trail Road Inc.

Plasco Trail Road Inc.

Rideau Front Ottawa ON

6925-6REN9E 2009 10/27/2009 Air Revoked and/or Replaced Database: СА

Database: СА

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address:** Client City: **Client Postal Code: Project Description:** Contaminants: **Emission Control:**

<u>Site:</u>

6925-6REN9E 2009 12/11/2009 Air Revoked and/or Replaced

Part of Lot 9, Concession 4, Rideau Front Ottawa ON

<u>Site:</u>	Plasco Trail Road Inc.	
	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address: Client City:** Client Postal Code: **Project Description:** Contaminants: **Emission Control:**

2009 4/23/2009 Air Revoked and/or Replaced

6925-6REN9E

Database: CA

Database: CA

Certificate #: Application Year: 6925-6REN9E 2010

Site:

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

<u>Site:</u> Plasco Trail Road Inc. Part of Lot 9, Concession 4, Rideau Front Ottawa ON

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

<u>Site:</u> Tenth Line Development Inc. Sandhill Rd Kanata Ottawa ON

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

<u>Site:</u> Daniel Patrick O'Brien Part Lot 9, Concession 3, at Manotick Station Ottawa ON

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

Database: CA

Database: CA

<u>Site:</u> Plasco Trail Road Inc. Rideau Front Ottawa ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

<u>Site:</u> City of Ottawa Part of Lot 9, Concession 4, Rideau Front Ottawa ON

7043-8A7KNZ 2010

11/26/2010

Approved

Air

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

Site: City of Ottawa

Part of Lot 9, Concession 4, Rideau Front Ottawa ON

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

<u>Site:</u> Plasco Trail Road Inc. Rideau Front Ottawa ON

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

Database: CA

Database: CA

Order No: 22050200589

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

<u>Site:</u> Drain-All Ltd. Mobile System Ottawa ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

A860302 2006 8/4/2006 Waste Management Systems Approved Database: CA

<u>Site:</u>	DRAIN-ALL LTL ON	0.			Database: CONV
Court Public Public Act:	Brief No: Location: ation City: ation Title:	98-0000-9004	Location: Region: Ministry District:	EASTERN REGION	
Invest Invest Penalt Descri	latter: d Matter: igation 1: igation 2: y Imposed:	THIS IS THE EASTERN BI	RIEF FOR ALL P.O.A. TICKETS		
<u>Additi</u>	onal Details				
Count Act:		1 EPA			
		186(3) EPA186(3)			
Date C	f Conviction: charged: e Disposition: sis:	4/14/99 SUSPENDED SENTENCE \$305.00			
<u>Site:</u>	Drain-All Ltd. Mobile System	Ottawa ON K1G 3N2			Database: ECA
	val No: val Date:	A860302 2006-08-04	MOE District: City:	Ottawa	

Longitude:

Geometry X:

Latitude:

98

Record Type:

Link Source:

Status:

Approved

ECA

IDS

Order No: 22050200589

Geometry Y:

SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location:

Site:

Plasco Trail Road Inc.

ECA-WASTE MANAGEMENT SYSTEMS WASTE MANAGEMENT SYSTEMS Drain-All Ltd. Mobile System https://www.accessenvironment.ene.gov.on.ca/instruments/8652-6HXRNS-14.pdf

Ottawa ON K0A 2Z0 4315-8JVP3K Approval No: Approval Date: 2012-02-23 Revoked and/or Replaced Status: Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-AIR Project Type: AIR Plasco Trail Road Inc. **Business Name:** Address: Full Address:

https://www.accessenvironment.ene.gov.on.ca/instruments/8555-8RKQXG-14.pdf

MOE District:

Longitude:

Geometry X:

Geometry Y:

Latitude:

City:

Plasco Trail Road Inc. Site: Ottawa ON

Humanics Universal Inc.

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location:

Full PDF Link:

PDF Site Location:

4315-8JVP3K 2/23/2012 Approved Air/Noise

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

Ottawa

Site: Part of Lot 7 Ottawa ON K4A 1Z6 ECA 2541-AK4T53 Approval No: **MOE District:** Approval Date: 2017-03-30 City: Approved Status: Longitude: Record Type: ECA Latitude: Link Source: IDS Geometry X: SWP Area Name: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Approval Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: 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**

Database:

ECA

Database:

ECA

Database:
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location: 1948-56NRX6 2002-01-28 Approved ECA IDS

ECA-Municipal and Private Water Works Municipal and Private Water Works Tenth Line Development Inc. Part of Block 15, Plan 4M-755

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

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

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Business Name: Address: Full Address: Full PDF Link: PDF Site Location: 4315-8JVP3K 2011-10-24 Revoked and/or Replaced ECA-AIR AIR Plasco Trail Road Inc. MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:

MOE District:

https://www.accessenvironment.ene.gov.on.ca/instruments/5231-8EQR2W-14.pdf

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

ECA

IDS

ECA

IDS

4986-56NSR2

ECA

IDS

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location:

2002-01-28 City: Approved Longitude: Latitude: Geometry X: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS Tenth Line Development Inc. Part of Block 15, Plan 4M-755

https://www.accessenvironment.ene.gov.on.ca/instruments/3841-56FTGJ-14.pdf

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

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link:

4315-8JVP3K 2012-09-10 Revoked and/or Replaced ECA-AIR AIR Plasco Trail Road Inc. **MOE District:** City: Longitude: Latitude: Geometry X: Geometry Y:

Database: ECA

100



Database: ECA

	thern Pipelines Inc. cession 4, Township of Osgoode Ottawa ON I	K0A 2W0		Database GEN
Generator No: SIC Code: SIC Description:	ON8926377	Status: Co Admin: Choice of Contact:	Registered	
Approval Years:	As of Nov 2021	Phone No Admin:		
PO Box No: Country:	Canada	Contam. Facility: MHSW Facility:		
Detail(s)				
Waste Class:	146 L			
Waste Class Desc:	Other specified inorganic sludges	s, slurries or solids		
<u></u>	REST PRODUCTS LIMITED NCESSION 4 MARTLAND ON POM 2K0			Database GEN
Generator No:	ON0322000	Status:		
SIC Code:	2591	Co Admin:		
SIC Description: Approval Years:	WOOD PRESERVATION 99,00,01	Choice of Contact: Phone No Admin:		
PO Box No:	99,00,01	Contam. Facility:		
Country:		MHSW Facility:		
<u>Detail(s)</u>				
Waste Class:	146			
Waste Class Desc:	OTHER SPECIFIED INORGANIC	CS		
	CORPORATION OF THE TOWNSHIP OF NCESSION 4 DORION ON			Database GEN
Generator No:	ON0334200	Status:		
SIC Code:	8371	Co Admin:		
SIC Description:	TRANSPORTATION ADMIN.	Choice of Contact:		
Approval Years: PO Box No:	98,99,00,01,02,03,04,05,06,07,08	Phone No Admin: Contam. Facility:		
Country:		MHSW Facility:		
Detail(s)				
Waste Class: Waste Class Desc:	253 EMULSIFIED OILS			
waste Ciass Desc:	ENIOLSIFIED OILS			
Waste Class:	252			
Waste Class Desc:	WASTE OILS & LUBRICANTS			

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

Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:

ON1120900 0821 SAND & GRAVEL PITS 92,93,94,95,96,97,98

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

<u>Detail(s)</u>

Database: GEN

<u>Site:</u> C & G ROSS CONSTRUCTION LIMITED LOT 7, CONCESSION 4 BLANSHARD TOWNSHIP ON

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

Detail(s)

 Waste Class:
 252

 Waste Class Desc:
 WASTE OILS & LUBRICANTS

<u>Site:</u> CHALK WELL DRILLING LTD. LOT 7, CONCESSION 4 RICHMOND TWP. ON

Generator No: ON2057900 Status: SIC Code: 0919 Co Admin: SIC Description: SERVICE -OIL & GAS Choice of Contact: Approval Years: 95,96,97,98,99,00,01 Phone No Admin: PO Box No: Contam. Facility: MHSW Facility: Country:

Detail(s)

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

<u>Site:</u> MORVEN CONSTRUCTION LTD. LOT 7, CONCESSION 4 ERNESTOWN TOWNSHIP ON

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

Detail(s)

Year:

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

<u>Site:</u> Plasco Trail Road Inc. Rideau Front Ottawa ON

2010

Site Name: Facility Owner: Discharge Type: Sector: District Area: Type of Concern: Contaminant: Status Report:

Air Emissions Electric Power Generation Ottawa CofA/Permit Non-Compliance, Legislation Non-Compliance NITROGEN OXIDES

<u>Details</u>

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

> Database: GEN

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

Status:

Database: NCPL

Order No: 22050200589

Database: GEN

Database: GEN

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

<u>Site:</u> Plasco Trail Road Inc. Rideau Front Ottawa ON

Year: Site Name: Facility Owner: Discharge Type: Sector: District Area: Type of Concern: Contaminant: Status Report:

2010

4/28/2010

Air Emissions Electric Power Generation Ottawa CofA/Permit Non-Compliance, Legislation Non-Compliance ORGANIC MATERIAL

<u>Details</u>

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: Quantity Min/Max: Facility Action: Ministry Action:

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: Quantity Min/Max: Facility Action: Ministry Action:

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: Quantity Min/Max: Facility Action: Ministry Action:

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: Quantity Min/Max: Facility Action: Ministry Action:

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: Quantity Min/Max: Facility Action: Ministry Action:

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: 4/28/2010 4/28/2010 100 ppm dry volume /10min avg 138/138 Conducting Study Assessment Complete - Incident Resolved 10/29/2010

10/29/2010 10/30/2010 100 ppm dry volume /10min avg 176.59/266.22 Ceased Operations, Conducting Study Assessment Complete - Incident Resolved

6/28/2010 6/28/2010 6/28/2010 100 ppm dry volume /10min avg 134.61/609.35 Conducting Study Assessment Complete - Incident Resolved

10/22/2010 10/22/2010 10/22/2010 100 ppm dry volume /10min avg 100.8/100.8 Conducting Study Assessment Complete - Incident Resolved

10/27/2010 10/27/2010 10/27/2010 100 ppm dry volume /10min avg 269.8/269.8 Ceased Operations, Conducting Study Assessment Complete - Incident Resolved

3/19/2010 3/19/2010 3/19/2010 100 ppm dry volume /10min avg

<u>Site:</u> Plasco Trail Road Inc. Rideau Front Ottawa ON

Plasco Trail Road Inc.



Incident Date: Exceedance Start Date:	9/24/2009 9/24/2009
Exceedance End Date:	9/24/2009
Limit/Unit/Freg:	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

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

Details

Site:

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

Database:

NCPL

Database:

NCPL

	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

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: Exceedance Start Date:	6/23/2009 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

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 ORGANIC MATERIAL Contaminant: Status Report:

Details

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

Incident Date: Exceedance Start Date: Exceedance End Date: Limit/Unit/Freq: Quantity Min/Max: Facility Action: Ministry Action:

stalled d 4/23/2009

4/23/2009 4/23/2009 100 ppm 137.42/137.42 Equipment Modified - Repaired - Replaced or Re-calibrated Assessment Complete - Incident Resolved

Database: NCPL

Database: NCPL

Incident Date:	5/27/2009
Exceedance Start Date:	5/27/2009
Exceedance End Date:	5/27/2009
Limit/Unit/Freg:	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/Frea:	100 ppm
Quantity Min/Max:	172.3/386.3
Facility Action:	Equipment Modified - Repaired - Replaced or Re-calibrated, New Equipment or Treatment Process Installed,
ruomy Addon.	Operational Process Modification
Ministry Action:	Assessment Complete - Incident Resolved
ministry Action.	
Incident Date:	5/8/2009
Exceedance Start Date:	5/8/2009
Exceedance End Date:	5/8/2009
Limit/Unit/Freg:	100 ppm
Quantity Min/Max:	196/195.98
Facility Action:	Other
Ministry Action:	Assessment Complete - No Action Required
winisay Action.	
Incident Date:	3/18/2009
Exceedance Start Date:	3/18/2009
Exceedance End Date:	3/18/2009
Limit/Unit/Freg:	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
In side of Data	
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 Start Date: Exceedance End Date:	5/14/2009
Limit/Unit/Freq: Quantity Min/Max:	100 ppm
Quantity Min/Max:	149.92/149.92
Facility Action: Ministry Action:	Ceased Operations, Operational Process Modification 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

erisinfo.com | Environmental Risk Information Services

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

<u>Site:</u> Kanata Research Park Corporation Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA ON

EBR Registry No: Ministry Ref No: Notice Type: Notice Stage:	IA05E1015 ER-3083-67XPBX Instrument\sDecision	Decision Posted: Exception Posted: Section: Act 1:
Notice Date:	November\s02,\s2005	Act 2:
Proposal Date:	June\s29,\s2005	Site Location Map:
Year:	2005	
Instrument Type:	(OWRA\ss.\s34)\s-\sPermit\sto\sTake\sWater	
Off Instrument Name:		
Posted By:		
Company Name:	Kanata\sResearch\sPark\sCorporatior	1
Site Address:		
Location Other: Proponent Name: Proponent Address: Comment Period: URL:	555\sLegget\sDrive,\sKanata\sOntario	,\sK2K\s2X3

Site Location Details:

Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA

	nd & Gravel Limited ssion 4RF, Ottawa (Geograpic To	ownship of Nepean) Nepean ON	Database: PTTW
EBR Registry No:	IA03E1440	Decision Posted:	
Ministry Ref No:	ER-18582	Exception Posted:	

Database: PTTW

Notice Type:	Instrument\sDecision	Section:	
Notice Stage: Notice Date:	March\s16,\s2004	Act 1: Act 2:	
Proposal Date: Year:	October\s14,\s2003 2003	Site Location Map:	
Instrument Type: Off Instrument Name:	(OWRA\ss.\s34)\s-\sPerm	nit\sto\sTake\sWater	
Posted By: Company Name:	Burnside\sSand\s&\sGrav	vel\sLimited	
Site Address: Location Other: Proponent Name:			
Proponent Address: Comment Period: URL:	3301\sMoodie\sDrive,\sO	ttawa,\sON\sOntario,\sK2J\s4S8	
Site Location Details:			

Lot 8, Concession 4RF, Ottawa (Geograpic Township of Nepean) Nepean

Site: Plasco Trail Road Inc. Ottawa ON 0286-9HUR26 Discharger Report: Ref No: Material Group: Site No: NA 2014/04/04 Incident Dt: Health/Env Conseq: Year: Client Type: Incident Cause: Leak/Break Sector Type: Truck - Tanker Agency Involved: Incident Event: Contaminant Code: 46 Nearest Watercourse: TREATED PROCESS WATER Contaminant Name: Site Address: Site District Office: Contaminant Limit 1: Contam Limit Freq 1: Site Postal Code: Contaminant UN No 1: Site Region: Environment Impact: Ottawa Confirmed Site Municipality: Soil Contamination; Surface Water Pollution Nature of Impact: 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 Land Spills SAC Action Class: Incident Reason: **Equipment Failure** Source Type: 4420 Trail Rd<UNOFFICIAL> Site Name: Site County/District: Site Geo Ref Meth: Spill of treated water to ashpalt Incident Summary: Contaminant Qty: 75 L

<u>Site:</u> City of Ottawa; Drain-All Ltd. Ottawa ON

Ref No: Site No: Incident Dt:	2725-BCFDLJ NA 5/22/2019	Discharger Report: Material Group:	
Year:	5/22/2019	Health/Env Conseq: 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:	

Database:

SPL

Database:

SPL

Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:

5/22/2019

To be determined<UNOFFICIAL>

EGN for (3) zones - Ottawa Flooding (2019)

Site Conc: Northing:

Site Geo Ref Accu:

Site Map Datum: SAC Action Class:

Source Type:

Easting:

<u>Site:</u> Plasco Trail R Ottawa ON	oad Inc.
Ref No:	4471-8SBBU4
Site No:	
Incident Dt:	12-MAR-12
Year:	
Incident Cause:	Discharge or E
Incident Event:	-
Contaminant Code:	41
Contaminant Name:	TOTAL ORGAI
Contaminant Limit 1:	

Contam Limit Freq 1:

Environment Impact:

Nature of Impact:

Receiving Env:

MOE Response:

Receiving Medium:

Dt MOE Arvl on Scn:

Dt Document Closed:

Site County/District: Site Geo Ref Meth: Incident Summary:

Contaminant Qty:

MOE Reported Dt:

Incident Reason:

Site Name:

Contaminant UN No 1:

MAR-12 charge or Emission to Air TAL ORGANIC CARBON Not Anticipated Air Pollution Sewage - Municipal/Private and Commercial No Field Response 12-MAR-12 Process upset

4420 Trail Road

TOC/CO exceedance March 12

Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Heat/Power Plant Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Ottawa Site Lot: Site Conc: Northing: NA Easting: NA Site Geo Ref Accu: Site Map Datum: SAC Action Class: Air Spills - Gases and Vapours Source Type:

Site: Plasco Trail Road Inc. Trail Road, Nepean Ottawa ON

Ref No: Site No: Incident Dt: Year:	8654-875HLL	Discharger Report: Material Group: Health/Env Conseq: Client Type:	
Incident Cause: Incident Event:	Other Discharges	Sector Type: Agency Involved:	Waste Disposal Site
Contaminant Code: Contaminant Name:	99 WATER	Nearest Watercourse: Site Address:	
Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1:		Site District Office: Site Postal Code: Site Region:	
Environment Impact: Nature of Impact:	Confirmed Soil Contamination	Site Municipality: Site Lot:	
Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn:		Site Conc: Northing: Easting: Site Geo Ref Accu:	
MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name:	7/7/2010 Plasco Trail Road <unofficial></unofficial>	Site Map Datum: SAC Action Class: Source Type:	Land Spills

Order No: 22050200589

Database: SPL

Database: SPL

109

Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:

Plasco Trail Road: 600L raw water & waste run off to grnd 600 L

Si	te:	

lot 8 ON Well ID: **Construction Date:** Primary Water Use: Sec. Water Use: Final Well Status: 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:

Domestic Water Supply

1522158

07197

Data Entry Status: Data Src: 1 1/12/1988 Date Received: Selected Flag: TRUE Abandonment Rec: Contractor: 3644 Form Version: 1 Owner: Street Name: OTTAWA County: Municipality: **RICHMOND VILLAGE** Site Info: Lot: 008 Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc:	10043971	Elevation: Elevrc: Zone: East83: North83:	18
Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc:	13-Nov-1987 00:00:00	Org CS: UTMRC: UTMRC Desc: Location Method:	9 unknown UTM na
Location Source Date Improvement Location Improvement Location	n Source:		

Overburden and Bedrock Materials Interval

Source Revision Comment: Supplier Comment:

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931050420 1 2 GREY 05 CLAY
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 26.0 ft

Overburden and Bedrock

Database: **WWIS**

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

<u>Method of Construction & Well</u> <u>Use</u>		
Method Construction ID:	961522158	

901522150
5
Air Percussion

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: Depth From:	STEEL
Depth To:	29.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Open Hole or Material:	STEEL
Depth From:	29.0
Depth To:	6.0
Casing Diameter:	inch

Construction Record - Casing

Casing ID: Layer: Material:	930076883 2 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: Test Type:	934654508
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

934109272
15
30.0
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

<u>Site:</u>

lot 9 ON

1526280

Data Entry Status:

Database: WWIS Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: 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:

Domestic

Water Supply

111829

Bore Hole Information

Bore Hole ID: 10047998 DP2BR: Spatial Status: Code OB: Code OB Desc: **Open Hole: Cluster Kind:** Date Completed: 17-Jun-1992 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931063708 2 GREY 15 LIMESTONE
Mat3 Desc: Formation Top Depth: Formation End Depth:	18.0 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

Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: **Concession Name:** Easting NAD83: Northing NAD83: Zone:

UTM Reliability:

1 6/22/1992 TRUE

3644 1

OTTAWA RICHMOND VILLAGE

009

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

113

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

933485531 1
1
FRESH
40.0
ft

<u>Site:</u>

lot 7 ON

Well ID: Construction Date:	1524618	Data Entry Status: Data Src:	1
Primary Water Use:	Cooling And A/C	Date Received:	6/21/1990
Sec. Water Use:	-	Selected Flag:	TRUE
Final Well Status:	Test Hole	Abandonment Rec:	
Water Type:		Contractor:	5222
Casing Material:		Form Version:	1
Audit No:	84331	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	OTTAWA CITY

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Database: WWIS Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:

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:

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

Formation ID: Layer:	931058525 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: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931058527 3 8 BLACK 17 SHALE 85 SOFT
<i>Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	12.0 21.0 ft

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

116

Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Elevation:Elevrc:Zone:18East83:North83:Org CS:UTMRC:9UTMRC Desc:unknown UTMLocation Method:na

007

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth U		931058526 2 2 GREY 28 SAND 08 FINE SAND 6.0 12.0 ft
<u>Method of Construction</u> <u>Use</u>	& Well	
Method Construction ID Method Construction Co Method Construction: Other Method Construct	ode:	961524618 5 Air Percussion
Pipe Information		
Pipe ID: Casing No: Comment: Alt Name:		10594936 1
Construction Record - C	Casing	
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:		930081182 1 STEEL 10.0 6.0 inch ft
<u>Site:</u> lot 9 ON		
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status:	1522957 Domestic Water Su	C
Water Type: Casing Material:		

27045

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 Src: 1 10/26/1988 Date Received: Selected Flag: TRUE Abandonment Rec: 3644 Contractor: Form Version: 1 Owner: Street Name: OTTAWA County: **RICHMOND VILLAGE** Municipality: Site Info: 009 Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Data Entry Status:

Database: WWIS

Bore Hole Information

Bore Hole ID:	10044764	
DP2BR:		
Spatial Status:		
Code OB:		
Code OB Desc:		
Open Hole:		
Cluster Kind:		
Date Completed:	28-Jul-1988 00:00:00	
Remarks:		
Elevrc Desc:		
Location Source Date:		
Improvement Location S	ource:	
Improvement Location Method:		
Source Revision Comment:		
Supplier Comment:		

Elevation: Elevrc: Zone: East83: North 22:	18
North83: Org CS: UTMRC: UTMRC Desc:	9 unknown UTM
Location Method:	na

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931053062 2 GREY 05 CLAY 12 STONES
<i>Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	24.0 30.0 ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931053061 1 2 GREY 05 CLAY
<i>Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	0.0 24.0 ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931053063 3 2 GREY 15 LIMESTONE
Mat3 Desc: Formation Top Depth:	30.0

Formation End Depth: Formation End Depth UOM:	64.0 ft
Method of Construction & Well Use	
Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:	961522957 5 Air Percussion
Pipe Information	
Pipe ID: Casing No: Comment: Alt Name:	10593334 1
Construction Record - Casing	
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	930078311 1 1 STEEL 33.0 6.0 inch ft
Construction Record - Casing	
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	930078312 2 4 OPEN HOLE 64.0 6.0 inch 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

Well ID: Construction Date: Primary Water Use:	1521723 Domestic	Data Entry Status: Data Src: Date Received:	1 8/14/1987
Sec. Water Use:	Mater Ormalia	Selected Flag:	TRUE
Final Well Status: Water Type:	Water Supply	Abandonment Rec: Contractor: Form Version:	3644
Casing Material: Audit No:	08550	Owner:	I
Tag: Construction Method:		Street Name: County:	
Elevation (m): Elevation Reliability:		<i>Municipality: Site Info:</i>	RICHMOND VILLAGE
Depth to Bedrock: Well Depth:		Lot: Concession:	008
Overburden/Bedrock: Pump Rate:		Concession Name: Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N): Flow Rate: Clear/Cloudy:		Zone: UTM Reliability:	

Bore Hole Information

Database: WWIS Bore Hole ID: 10043540 Elevation: DP2BR: Elevrc: Spatial Status: 18 Zone: Code OB: East83: Code OB Desc: North83: **Open Hole:** Org CS: . Cluster Kind: UTMRC: 9 26-Jun-1987 00:00:00 Date Completed: UTMRC Desc: unknown UTM Location Method: Remarks: na Elevrc Desc: Location Source Date: Improvement Location Source:

Overburden and Bedrock Materials Interval

Improvement Location Method: Source Revision Comment: Supplier Comment:

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	931048926 2 GREY 14 HARDPAN
Formation Top Depth:	25.0
Formation End Depth:	28.0
Formation End Depth UOM:	ft

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:_	931048925 1 2 GREY 05 CLAY
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.0 25.0 ft

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931048927 3 2 GREY 15 LIMESTONE
<i>Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	28.0 65.0 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: Layer:	930076074 1
Material:	1 STEEL
Open Hole or Material: Depth From:	SILLL
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 Well ID: 1521721 Data Entry Status: Construction Date: Data Src: 1 8/14/1987 Primary Water Use: Domestic Date Received: Selected Flag: Sec. Water Use: TRUE Final Well Status: Water Supply Abandonment Rec: 3644 Water Type: Contractor: Casing Material: Form Version: 1 08551 Audit No: Owner: Street Name: Tag: Construction Method: County: OTTAWA Elevation (m): **RICHMOND VILLAGE** Municipality: Elevation Reliability: Site Info: 007 Depth to Bedrock: Lot: Well Depth: Concession: Overburden/Bedrock: Concession Name: Pump Rate: Easting NAD83: Static Water Level: Northing NAD83: Flowing (Y/N): Zone: UTM Reliability: Flow Rate: Clear/Cloudy: Bore Hole Information

Elevation:

Elevrc:

Bore Hole ID: DP2BR:

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10043538

Database: **WWIS**

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:

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2:	931048920 1 2 GREY 05 CLAY
<i>Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:</i>	0.0 20.0 ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc:	931048921 2 GREY 14 HARDPAN 11 GRAVEI
Mat2 Desc. Mat3:	ORAVEL
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	20.0 27.0 ft

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

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

Zone:18East83:18North83:18Org CS:10UTMRC:9UTMRC Desc:10Location Method:na

9 unknown UTM na

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: Layer:	930076070 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

934107609
15
25.0
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

lot 8 ON

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:

Database: WWIS

Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: 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:	1500396 Domestic O Water Supply	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 2/26/1948 TRUE 1107 1 OTTAWA OTTAWA CITY (GLOUCESTER) 008 JG
Bore Hole Information Bore Hole ID:	10022441	Elevation:	
DP2BR: Spatial Status: Code OB:		Elevrc: Zone: East83:	18

126

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:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color:	930989162 2
General Color:	
Mat1: Most Common Material:	26 ROCK
Mat2: Mat2 Desc:	19 SLATE
Mat2 Desc: Mat3:	SLATE
Mat3 Desc:	00.0
Formation Top Depth: Formation End Depth:	28.0 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
Formation End Depth OOM.	ii ii

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

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North83: Org CS: UTMRC: UTMRC Desc: Location Method:

9 unknown UTM na

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:

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: 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:

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:

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:

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:

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: 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

AAGR

AGR

AMIS

ANDR

AST

AUWR

Provincial

Provincial

Private

Provincial

Provincial

Private

Provincial

129

Certificates of Approval:

Dry Cleaning Facilities:

Commercial Fuel Oil Tanks:

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

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

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this

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).

Chemical Manufacturers and Distributors:

Government Publication Date: 1985-Oct 30, 2011*

Government Publication Date: Jan 2004-Dec 2019

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

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

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

Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of

Chemical Register:

Government Publication Date: 1999-Sep 30, 2021

Please refer to those individual databases for any information after Oct.31, 2011.

tetrachloroethylene to the environment from dry cleaning facilities.

Compressed Natural Gas Stations:

Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: 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

Government Publication Date: Apr 1987 and Nov 1988* **Compliance and Convictions:**

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

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.*

Certificates of Property Use: 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

130

Provincial

CA

CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's

Federal

Private

Private

Provincial CFOT

CHM

CNG

CONV

CHEM

Private Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at

Provincial

COAL

Provincial

CPU

Provincial

erisinfo.com | Environmental Risk Information Services

Drill Hole Database:

company map; or from submitted a "Report of Work". Government Publication Date: 1886 - Sep 2020 **Delisted Fuel Tanks:**

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

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

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

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 Activity and Sector Registry:

Environmental Compliance Approval:

Environmental Effects Monitoring:

Government Publication Date: 1992-2007*

ERIS Historical Searches:

131

Environmental Registry:

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

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.

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:

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*

Provincial

Provincial

Provincial

Provincial

Provincial

Federal

Private

Federal

FIIS

DRI

DTNK

FBR

FCA

EEM

EHS

Emergency Management Historical Event:

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

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC)

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.

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities:

Environmental Penalty Annual Report:

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: 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: 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:

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): 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:

132

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

Federal

Federal

Federal

Provincial

FST

FOFT

FRST

Provincial

Provincial

Provincial

Federal

FMHF

EPAR

EXP

Order No: 22050200589

Fuel Storage Tank - Historic:

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:

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

Government Publication Date: 2013-Dec 2019

Greenhouse Gas Emissions from Large Facilities:

TSSA Historic Incidents:

dioxide equivalents (kt CO2 eq).

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: 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:

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:

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:

133

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*

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon

Provincial

Federal

Provincial

Provincial

HINC

GHG

Federal

Provincial

Provincial

Private

MINE

INC

LIMO

FSTH

GEN

Mineral Occurrences:

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):

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: 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:

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*

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on

National Defense & Canadian Forces Spills:

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

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.

jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Government Publication Date: 2008-Jun 30, 2021

National Defence & Canadian Forces Waste Disposal Sites:

National Energy Board Wells:

134

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.

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

Government Publication Date: 1920-Feb 2003*

Federal In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of

Provincial

Federal

Federal

Federal

Federal

Federal

Provincial

MNR

NATE

NDFT

NDSP

NDWD

NFBI

NEBP

National Environmental Emergencies System (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:

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:

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

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.

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

Government Publication Date: 1988-Feb 28, 2022

Ontario Oil and Gas Wells:

Oil and Gas Wells:

Orders:

135

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: 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

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: 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:

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

NPCB

Federal

Federal

Private

Provincial

NPRI

OGWF

OOGW

Provincial

Provincial

Private

Federal

Federal

NFFS

ORD

PCFT
136

Permit to Take Water:

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

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*

Private and Retail Fuel Storage Tanks:

take water. Government Publication Date: 1994 - Mar 31, 2022

Ontario Regulation 347 Waste Receivers Summary: 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.

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

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:

or propane storage tanks. Government Publication Date: 1999-Sep 30, 2021

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*

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

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:

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

Government Publication Date: 1986-1990, 1992-2019 Provincial Record of Site Condition: RSC

requirements related to site assessment and clean up.

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 /

Private Scott's Manufacturing Directory: 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

Provincial **Ontario Spills:**

Provincial

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PTTW

Provincial

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Provincial

PRT

PES

PINC

Order No: 22050200589

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).

Wastewater Discharger Registration Database:

Government Publication Date: 1990-Dec 31, 2019

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.

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

Government Publication Date: 1915-1953*

Anderson's Storage Tanks:

Transport Canada Fuel Storage Tanks:

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:

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:

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:

erisinfo.com | Environmental Risk Information Services

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:

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

SRDS

TANK

TCFT

VAR

WDS

WDSH

Private

Federal

Provincial

Provincial

Provincial

Provincial

WWIS

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.

<u>Map Key:</u> 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.'

<u>Unplottables:</u> 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.

EXP Services Inc.

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix F: Aerial Photographs









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









EXP Services Inc.

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix G: Analytical Tables



*ex	p.
Page 1	of 1

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)	м	W-3	DUP 1 (Field Dulicate MW-3)	м	W-4	м	W-5	P3 (Field Duplicate of MW-5)	м	W-6	Trip	Blank	Field Blank
ampling 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
reen Depth (mbgs)		Urange	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
latile Organic Compounds	•			•			•							•			1
etone	ug/L	2700	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
nzene	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
romodichloromethane	ug/L	16	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
romoform	ug/L	25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
omomethane	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
arbon 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
hlorobenzene	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
hloroform	ug/L	2	<1	<1	<1	<1	<1	<1	< 1	<1	< 1	<1	<1	<1	<1	<1	<1
ibromochloromethane	ug/L	25	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
chlorodifluoromethane	ug/L	590	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
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
,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
,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-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
,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-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
is-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
ans-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
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
is-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
ans-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
,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
thylbenzene	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
lexane	ug/L	51	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
dethyl Ethyl Ketone (2-Butanone)	ug/L	1800	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
fethyl Isobutyl Ketone	ug/L	640	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
dethyl tert-butyl ether	ug/L	15	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Aethylene Chloride	ug/L	50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tyrene	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
,1,1,2-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
,1,2,2-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
etrachloroethylene	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
oluene	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-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
,1,2-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
richloroethylene	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
richlorofluoromethane	ug/L	150	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
inyl 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
n/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
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
lenes, 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
etroleum Hydrocarbons																	
1 PHC (C6 - C10) - BTEX*	ug/L	750	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	-	-	-
2 PHC (C10-C16)	ug/L	150	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	-		-
3 PHC (C16-C34)	ug/L	500	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	-		-
4 PHC (C34-C50)**	ug/L	500	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	-	-	-
NOTES:					•		< 400 ental Protection Act, April 201				•						<u> </u>

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* ND NV N/A -m bgs

Table 2 - Analytical Results in Groundwater - PAH 4380 Trail Road Road, Ottawa, Ontario OTT-21023798-A0

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Parameter	Units	MECP Table 2 ¹	MW-	2 (P2)	M	N-3	DUP 1 (Field Dulicate MW-3)	M	W-4	M	N-5	P3 (Field Duplicate of MW-5)	M	
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)		Oralige	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:														

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. Non-detectable results are shown as < {RDL}¹ where RDL represents the reporting detection limit.

ND NV N/A

m bgs

No Value No Value Not Applicable Parameter not analyzed 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)	M	W-3	DUP 1 (Field Dulicate MW-3)	M	IW-4	м	W-5	P3 (Field Duplicate of MW-5)	M	W-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)		Orange	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
/anadium	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
norganics														
oH @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. Non-detectable results are shown as ^{*}< (RDL)^{*} where RDL represents the reporting detection limit.

No Value Not Applicable

ND NV N/A m bgs

Parameter not analyzed 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

			MW5	P3 (Field Duplicate)		
Parameter	Units	RDL	5-May-2023	5-May-2023	RPD (%)	Alert Limit (%)
Metals			5-1viay-2025	5-111ay-2025		1
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**



EXP Services Inc.

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix H: Laboratory Certificates of Analysis



ADU ENVIRONMENTAL LABORATOR ES

Client committed. Quality assured.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada Attention: Chris Kimmerly

DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

JOB/PROJECT NO .: OTT-21023795-AO

Unless otherwise noted all extraction, analysis, QC

requirements and limits for holding time were met.

the greater of the two numbers are to be used in

QC will be made available upon request.

application to the CWS PHC

If analyzed for F4 and F4G they are not to be summed but

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
pН	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

 $\mu g/g$ = 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.

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



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER:

WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg	j. 153
	Sample I.D		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Colle	cted	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 ($\mu g/L)$ - Table 1 - Ground Water

R.L. = Reporting Limit

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

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DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

r					1			
	Client I.D.		P2	MW-3	MW-4	MW-5	O. Re	g. 153
	Sample I.D		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4		
	Date Colle	cted	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 (μ g/L) - Table 1 - Ground Water

R.L. = Reporting Limit

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

Γ	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg	g. 153
	Sample I.D).	B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4		
	Date Colle	cted	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 (μ g/L) - Table 1 - Ground Water

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

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DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER:

WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Re	g. 153
	Sample I.D).	B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Colle	cted	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 (μ g/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

cated by an * Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

Greg Clarkin , BSc., C. Chem



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 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	Ο. 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 ($\mu g/L)$ - 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



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 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 5 B22-17759-6 09-Jun-22	Trip Blank B22-17759-7	O. Reg. 153 Tbl. 1 - GW (µg/L)
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 (μ g/L) - Table 1 - Ground Water

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 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 (μ g/L) - Table 1 - Ground Water

R.L. = Reporting Limit

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

	Client I.D.		MW-6	DUP 1	Trip Blank	O. Reg. 153
	Sample I.D).	B22-17759-5	B22-17759-6	B22-17759-7	Tbl. 1 - GW
	Date Colle	cted	09-Jun-22	09-Jun-22		(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 (μ g/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

Markin

Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

REPORT No. B22-17759

C.O.C.: G110810

EXP Services Inc

Report To:

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER:

WATERWORKS NO.

Summary of Exceedances

2650 Queensview Drive, Suite 100

Ottawa ON K2B 8H6 Canada

DATE RECEIVED: 09-Jun-22 DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

Attention: Chris Kimmerly

O. Reg. 153 - Soil, Ground Water and Sediment Standards Tbl. 1 - GW (μ g/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 Markin

Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

REPORT No. B23-03303 (i)

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collecte	ed	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

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



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collecte	ed	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

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



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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

AVA

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



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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

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



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Uncertainty values available upon request Steve Garrett Director of Laboratory Services

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

Page 4 of 8.



Final Report

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REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collecte	ed	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

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



Final Report

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DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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

ATA

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



Final Report

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DATE RECEIVED: 06-May-23

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SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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

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



Final Report

C.O.C.: G107095

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DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (ii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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				

 $\mu g/g$ = 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 μ g/g, (F2-napth if requested)

F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)

F4 C34-C50 hydrocarbons in μ g/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.

R.L. = Reporting Limit

Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie Uncertainty values available upon request

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.

AVA

Steve Garrett Director of Laboratory Services


Final Report

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DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (iii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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

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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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 Collect	ed	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

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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SAMPLE MATRIX: Groundwater

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Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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	

AVA

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



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (iii)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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	

 μ g/g = micrograms per gram (parts per million) and is equal to mg/Kg

F1 C6-C10 hydrocarbons in μ g/g, (F1-btex if requested)

F2 C10-C16 hydrocarbons in μ g/g, (F2-napth if requested)

F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)

F4 C34-C50 hydrocarbons in $\mu g/g$

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.

R.L. = Reporting Limit

Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie Uncertainty values available upon request

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.

AVA

Steve Garrett Director of Laboratory Services



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (i)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collect	ed	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

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



Final Report

REPORT No. B23-03303 (i)

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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 Collecte	əd	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		

AVA

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



Final Report

C.O.C.: G107095

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly

DATE RECEIVED: 06-May-23

DATE REPORTED: 16-May-23

SAMPLE MATRIX: Groundwater

REPORT No. B23-03303 (i)

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

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

 $\mu g/g = micrograms per gram (parts per million) and is equal to mg/Kg$

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 μ g/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.

R.L. = Reporting Limit

Site Analyzed: K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill,B-Barrie Uncertainty values available upon request

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.

Steve Garrett Director of Laboratory Services

ADU ENVIRONMENTAL LABORATOR ES

Client committed. Quality assured.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada Attention: Chris Kimmerly

DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories

2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244

JOB/PROJECT NO .: OTT-21023795-AO

Unless otherwise noted all extraction, analysis, QC

requirements and limits for holding time were met.

the greater of the two numbers are to be used in

QC will be made available upon request.

application to the CWS PHC

If analyzed for F4 and F4G they are not to be summed but

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
pН	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

 $\mu g/g$ = 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.

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



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER:

WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg	j. 153
	Sample I.D		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Colle	cted	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 ($\mu g/L)$ - 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



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

r					1			
	Client I.D.		P2	MW-3	MW-4	MW-5	O. Re	g. 153
	Sample I.D		B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4		
	Date Colle	cted	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 (μ g/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



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

Γ	Client I.D.		P2	MW-3	MW-4	MW-5	O. Reg	g. 153
	Sample I.D).	B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4		
	Date Colle	cted	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 (μ g/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



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER:

WATERWORKS NO.

	Client I.D.		P2	MW-3	MW-4	MW-5	O. Re	g. 153
	Sample I.D).	B22-17759-1	B22-17759-2	B22-17759-3	B22-17759-4	Tbl. 1 - GW	
	Date Colle	cted	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 (μ g/L) - Table 1 - Ground Water

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cated by an * Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

Greg Clarkin , BSc., C. Chem



Final Report

C.O.C.: G110810

Report To:

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DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

	Client I.D.		MW-6	DUP 1	Trip Blank	O. Reg. 153
	Sample I.D Date Colle		B22-17759-5 09-Jun-22	B22-17759-6 09-Jun-22	B22-17759-7	Tbl. 1 - GW (μg/L)
Parameter	Units	R.L.				
pH @25°C	pH Units	N.L.	8.02	8.07		
Conductivity @25°C	µmho/cm	1	934	644		
Chloride	μημα/L	500	23300	20700		790000
Cyanide (Free)	μg/L	5	< 5	< 5		5
Antimony	μ <u>g</u> /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 ($\mu g/L)$ - Table 1 - Ground Water

R.L. = Reporting Limit

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Greg Clarkin , BSc., C. Chem

Lab Manager - Ottawa District



Final Report

C.O.C.: G110810

Report To:

EXP Services Inc 2650 Queensview Drive, Suite 100 Ottawa ON K2B 8H6 Canada <u>Attention:</u> Chris Kimmerly DATE RECEIVED: 09-Jun-22

DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 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	Ο. Reg. 153 Tbl. 1 - GW (μg/L)
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 (μ g/L) - Table 1 - Ground Water

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



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DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 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 (μ g/L) - Table 1 - Ground Water

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Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

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SAMPLE MATRIX: Groundwater

REPORT No. B22-17759

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER: WATERWORKS NO.

	Client I.D. Sample I.D. Date Collected		MW-6	DUP 1	Trip Blank	O. Reg. 153
			B22-17759-5	B22-17759-6	B22-17759-7	Tbl. 1 - GW
			09-Jun-22	09-Jun-22		(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 (μ g/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

Markin

Greg Clarkin , BSc., C. Chem Lab Manager - Ottawa District



Final Report

REPORT No. B22-17759

C.O.C.: G110810

EXP Services Inc

2650 Queensview Drive, Suite 100

Ottawa ON K2B 8H6 Canada

DATE RECEIVED: 09-Jun-22 DATE REPORTED: 16-Jun-22

SAMPLE MATRIX: Groundwater

Summary of Exceedances

Attention: Chris Kimmerly

Report To:

Caduceon Environmental Laboratories 2378 Holly Lane Ottawa Ontario K1V 7P1 Tel: 613-526-0123 Fax: 613-526-1244 JOB/PROJECT NO.: OTT-21023795-AO P.O. NUMBER:

WATERWORKS NO.

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

Drain-All Ltd. Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A0 December 23, 2023

Appendix I: Site Photographs



Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A



Photograph No. 1:

View of the Phase One property looking east.



Photograph No. 2: View of the soil decanting area (Area A).

Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A



Photograph No. 3



Photograph No. 4 View of the AST inside the shipping container.

Phase One Environmental Site Assessment 4380 Trail Road, Ottawa, Ontario OTT-21023795-A



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.