Phase One Environmental Site Assessment

520 & 570 March Road, Kanata (Ottawa), Ontario

Nokia Canada Inc., Kanata Innovation Nominee Ltd., Kanata Innovation Leasing Ltd., and UMB Bank, N.A., as Trustee of Nokia (Ottawa, Ontario) CTL Pass-Through Trust, and its successor and assigns

05 August 2025

→ The Power of Commitment



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1. Executive Summary

GHD was retained by Broccolini Real Estate Group (Ontario) Inc. (Broccolini) on behalf of Nokia Canada Inc. (Nokia), Kanata Innovation Nominee Ltd., Kanata Innovation Leasing Ltd., and UMB Bank, N.A., as Trustee of the Nokia (Ottawa, Ontario) CTL Pass-Through Trust, and its successors and assigns to conduct a Phase One Environmental Site Assessment (ESA) of the parking lot property that is currently part of the overall Nokia property (Overall Nokia Property) located at 600 March Road in Kanata (Ottawa), Ontario; the parking lot property will be hereinafter referred to as the Site or Phase One Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 hectares (ha) in size and currently consists of surface level car parking and landscaped areas. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes. The Site is currently owned by Nokia.

The Phase One ESA was conducted in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 – Record of Site Condition (O. Reg. 153/04), as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in O. Reg. 153/04. Previous environmental reports have been prepared for the Site, which are attached as an Appendix to this report.

It is GHD's understanding that Nokia is investigating development opportunities on the Phase One Property with a new office complex including new high-rise office, five-storey lab building, and amenity spaces, all with associated surface parking. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future development opportunities. The preparation and submission a Record of Site Condition (RSC) to the Ontario Ministry of Environment, Conservation, and Parks (MECP) in accordance with O. Reg. 153/04, is not required at this time since the property usage is remaining the same (commercial/industrial).

The Phase One ESA was conducted by Mr. Rehoboth Mubedi and Ms. Emma Stewart and was reviewed by Mr. Warren Croft, all of GHD. Mr. Croft is a Qualified Person as defined with O. Reg. 153/04. The qualification of Mr. Croft is presented in **Appendix A**.

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, previous environmental reports, and the review of Site history, no APECs were identified to be associated with the Site.

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is not required to characterize soil and groundwater quality at the Phase One Property.

2. Introduction

2.1 Phase One ESA Property Information

GHD was retained by Broccolini Real Estate Group (Ontario) Inc. (Broccolini) on behalf of Nokia Canada Inc. (Nokia), Kanata Innovation Nominee Ltd., Kanata Innovation Leasing Ltd., and UMB Bank, N.A., as Trustee of the Nokia (Ottawa, Ontario) CTL Pass-Through Trust, and its successors and assigns to conduct a Phase One Environmental Site Assessment (ESA) of the parking lot property that is currently part of the overall Nokia property (Overall Nokia Property) located at 600 March Road in Kanata (Ottawa), Ontario; the parking lot property will be hereinafter referred to as the Site or Phase One Property. A Site Location Map and a Site Plan are provided on **Figure 1** and **Figure 2**, respectively.

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 ha in size and currently consists of surface level car parking and landscaped areas. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

A legal survey of the Overall Nokia Property is provided in the 2022 Phase One ESA report (refer Section 4.1.6 and **Appendix B**). The Site consists of one parcel with the following property identification number (PINs) and descriptions:

– 04517-2097 (LT) Part Lots 8 and 9 Concession 4 March Designated as Parts 5 and 7 Plan 4R35453; subject to an easement over Part 7 Plan 4R35453 in favour of Part 8 Plan 4R35453 as in OC2646751; subject to an easement over Part 5 Plan 4R35453 in favour of Part 8 Plan 4R35453 as in OC2646751; City of Ottawa.

The Site is currently owned by Nokia Canada Inc., and it is understood the Nokia is investigating development opportunities, including new high-rise office, five-storey lab building, and amenity spaces, all with associated surface parking. Contact information for Nokia representative is listed below:

Margaret Wolodarkski, Program Manager, Ottawa Innovation Campus
Nokia Canada Inc.
600 March Road
Ottawa, Ontario K2K 2T6

Phone: (613) 843-0660
Email: margaret.wolodarski@nokia.com

3. Scope of Investigation

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04 – Record of Site Condition, as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any PCAs and APECs associated with the Site. PCAs and APECs are defined in O. Reg. 153/04.

It is GHD's understanding that Nokia is investigating development opportunities with the Phase One Property as noted in Section 2. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future development opportunities. The preparation and submission of an RSC to the Ontario MECP in accordance with O. Reg. 153/04 is not required at this time since the property usage is remaining the same (commercial/industrial).

The following tasks were conducted as part of the Phase One ESA:

– Review of an electronic environmental database search of federal, provincial, and private source databases.
– Review of Phase One Property title records.
– Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, regional geological information, and previous environmental reports.
– Review of past and current Phase One Property usage and adjacent property occupancy.
– Examination of the facilities, equipment, utility services, operations, and associated records for the Site.
– Observations of any conditions that represented potential environmental concerns.
– Review of chemical use and storage, and spill/release incidents.
– Review of aboveground and underground storage tank records.
– Review of waste handling, accumulation, storage, and disposal practices.
– Review of air emissions and wastewater discharges.
– Review of equipment that potentially contains chlorofluorocarbons.
– Review of equipment that potentially contains polychlorinated biphenyls.
– Observations of potential lead-based paint.
– Observations of potential asbestos-containing materials.

– Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs and APECs associated with the Site. PCAs and APECs are defined in O. Reg. 153/04. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows.

3.1 Limitations

This report has been prepared by GHD for Broccolini on behalf of Nokia Canada Inc., Kanata Innovation Nominee Ltd., Kanata Innovation Leasing Ltd., and UMB Bank, N.A., as Trustee of the Nokia (Ottawa, Ontario) CTL Pass-Through Trust, and its successors and assigns *and may only be used and relied on by Broccolini and above listed parties for the purpose agreed between GHD and Client (Broccolini).*

GHD otherwise disclaims responsibility to any person other than the Client and above listed parties arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

4. Records Review

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Study Area included all properties located wholly or partially within 250 metres (m) of the center of the Site, as required by O. Reg. 153/04. This area has been determined by GHD to be a sufficient study area since PCAs and/or APECs located beyond 250 m from the Site will not likely adversely impact the Property.

The adjacent and surrounding properties within the Phase One Study Area were visually inspected from the Site and/or nearby streets, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the surrounding properties within the Phase One Study Area that were visible from applicable streets.

Along with various residential, commercial, and vacant properties located within the Phase One Study Area, a couple business park areas (known as the Kanata Research Park and Kanata North Technology Park) were identified. Although various potential technology and/or research manufacturing may be conducted on the interior of these buildings/properties, the exterior of many of the buildings/properties appeared to be operated solely as offices with no apparent manufacturing being conducted based on GHD's visual inspection, unless as noted below.

Information regarding adjacent/surrounding properties within the Phase One Study Area are noted below:

North

The Site is bound to the north by the current Nokia Office Complex beyond which is Legget Drive and Terry Fox Drive and the following properties:

– Office buildings at 555 Legget Drive (multiple businesses).
– Wooded area beyond Terry Fox Drive.
– Office building at 359 Terry Fox Drive (multiple businesses).
– Office building at 362 Terry Fox Drive (B.J. Kane Electric Ltd [commercial and industrial electrical services]) beyond Terry Fox Drive.

East

The Site is bound to the east by Legget Drive, beyond which are the following properties (north to south):

– Office building at 535 Legget Drive (multiple businesses).
– Brookstreet Hotel and Conference Center at 525 Legget Drive, beyond which is a golf course and stormwater ponds.
– Office building at 515 Legget Drive (multiple businesses).
– Office building at 425 Legget Drive (Renaissance).

South

The Site is bound to the south by the following properties:

– Office and possible manufacturing (Sanmina Corporation – Optical, RF/Microwave products) property at 500 March Road (adjacent).
– Vacant, wooded property with evidence of a creek running through it at 490 March Road.
– Office building at 3001 Solandt Road (nanometrics [electronics services]).
– Office building at 40 Hines Road (Trend Micro [cybersecurity]; across March Road to the southwest).
– Office building at 495 March Road (multiple businesses; across March Road to the southwest).

West

The Site is bound to the west by March Road, beyond which are the following properties (north to south):

– Office buildings at 603 March Road and 375 Terry Fox Drive (Renesas [microcontrollers, analog and power devices] and TalentLab [IT Recruiters]).
– Vacant, wooded property.
– Commercial strip mall property at 591 March Road; includes following businesses: insurance, veterinary hospital, restaurants, pet grooming and supplies, spa.
– Power Muscle & Fitness (Gym) property at 555 March Road.
– Commercial property (insurance company and medicine wellness centre) at 525 March Road.
– Office building at 88 Hines Road (Telemus [electric warfare systems] and CCI Antennas [wireless equipment]).
– Office buildings at 80 and 84 Hines Road (multiple businesses at both buildings).
– Royal Canadian Legion at 70 Hines Road.
– Office buildings at 505 March Road and 50 Hines Road (multiple businesses at both buildings).

Based on GHD's observations during the Site inspection, the operations of the Nokia Office Complex on the adjacent property to the north and the Sanmina Corporation on the adjacent property to the south at 500 March Road are identified as PCAs (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on GHD’s Phase Two ESA report of the Nokia property (dated July 19, 2022) and GHD’s

Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site near the adjacent properties to the north and south were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the Nokia and Sanmina operations were not identified as having the potential to contribute to an APEC at the Site.

4.1.2 First Developed Use Determination

Based on GHD's review of historical documents and information gathered from Site interviews, the Site was vacant and/or used for agricultural purposes between 1930 and 1991. Between 1991 and 1999, a surface level parking lot was constructed on the Site associated with the office buildings located on the adjacent property to the north.

4.1.3 Fire Insurance Plans

Fire insurance plans assist in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements, and facility operations. No coverage for the Site and adjacent lands were found on existing fire insurance plans.

4.1.4 Chain of Title

GHD was provided chain of title search documentation for the Overall Nokia Property as reported in GHD's Phase One ESA report (dated April 20, 2022; refer to Section 4.1.6).

The legal Property description is now identified as PIN 04517-2097 (LT Part Lots 8 and 9 Concession 4 March Designated as Parts 5 and 7 Plan 4R35453; subject to an easement over Part 7 Plan 4R35453 in favour of Part 8 Plan 4R35453 as in OC2646751; subject to an easement over Part 5 Plan 4R35453 in favour of Part 8 Plan 4R35453 as in OC2646751; City of Ottawa.

The Phase One Property has been owned by Nokia or predecessors since the 1990s.

No PCAs or APECs were identified based on available chain of title information.

4.1.5 Historical City Directories

Historical city directories generally document the occupants of municipal addresses on a yearly basis. Based on GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did contract Environmental Risk Information Services Ltd. (ERIS) to conduct a search of available city directory information in their databases. It should be noted that a new search was not completed for this Phase One ESA, since subsequent city directories beyond 2011 are not available. A summary of the available Phase One ESA Study Area addresses and businesses listed as provided by ERIS is noted below:

- 600 March Road (Nokia site) was listed as Alcatel-Lucent in 2011, Alcatel Networks in 2001/02, and Newbridge Networks in 1996/1997 and 1992. Not listed in 2005/06.
- 555 March Road (west, across March Road) | Goodlife Fitness in 2011.
- 591 March Road (west, across March Road) | Royal Lepage (2011, 2005/06, 2001/02, 1996/97), Wine Craft (2011, 2001/02, 1996/97), Vet Hospital (2011, 2001/02, 1996/97, 1992), Bombay Masala (2011), Co-Operators (2011), Island Tanning (2001/02), Ashoka Indian Cuisine (2001/02), Appliance Experts (1996/97, 1992), Market Place (1996/97), Marchview Dry Cleaners (1996/97), Technology Brokers (1992), Bytes Donuts (1992).
- 603 March Road (west, across March Road) | Blair Networks in 2011. Not listed in 2005/06. Tundra Semi Conductor in 2001/02. Newbridge Networks in 1996/97 and 1992.
- 70 Hines Road (west, across March Road) | Canadian Legion in 2011 and 2005/06. PCL Constructors in 2001/02).

– 84 Hines Road (west, across March Road) | Certicom Corp (2011 and 2005/06), Irdeto Canada (2011), Sidense Corp (2011), Ashton Electronic Systems (2011), Arrow Electronics (2011), Psion Teklogix (2011), Metconnex Inc (2005/06), Colonnade Developments (2005/06), Taral Networks (2005/06), Telewatch Monitoring (2005/06), Cloakware Corp (2005/06), Sitecast Construction (2001/02).
– 88 Hines Road (west, across March Road) | Flexus Electronics (2011, 2005/06, 2001/02), Wescar Corp (2005/06), Telemus Inc. (2005/06, 2001/02), Arrow Electronics (2001/02).
– 95 Hines Road (west, across March Road and Hines Road) | Wescar Corp (2011, 2005/06, 2001/02, 1996/97), Value Added Solutions (2005/06, 2001/02), Omega Telemus (1996/97), I-Stat Canada (1996/1997).

Based on review of above city directory entries, the operation of a dry cleaners at 591 March Road (Marchview Dry Cleaners; 1996/97 directory) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04. However, based on GHD's Phase Two ESA report of the Overall Nokia Property (dated July 19, 2022) and GHD's Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site near the adjacent property to the west were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the dry-cleaning operations were not identified as having the potential to contribute to an APEC at the Site.

4.1.6 Environmental Reports

GHD previously completed the following environmental documents for the Site or Overall Nokia Property:

– Phase One Environmental Site Assessment (Report), 600 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated April 20, 2022
– Phase Two Environmental Site Assessment (Report), 600 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated July 19, 2022
– Groundwater Sampling Activities (Letter), Nokia Property Redevelopment, 600 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated August 12, 2024
– Phase One Environmental Site Assessment (Report), 520 & 570 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated September 5, 2024

GHD reviewed and summarized these documents below for this Phase One ESA.

GHD Phase One Environmental Site Assessment (Overall Nokia Property) (April 20, 2022)

GHD was retained by Nokia to conduct a Phase One ESA of the Overall Nokia Property located at 600 March Road in Kanata (Ottawa), Ontario. The Nokia property is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 square metres [m^2] of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas. The Nokia property is currently owned by Nokia and is used for office and research/development activities. Prior to the current development, the property was vacant and/or used for agricultural purposes.

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04, as amended. It was GHD's understanding that Nokia intended to amend the zoning of the property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the site.

Based on the results of the Phase One ESA, including the site inspection, information provided by site representatives and regulatory agencies, documents reviewed, and the review of site history, the following APECs were identified to be associated with the larger Nokia property.

1. ***Adjacent Manufacturing Operations |*** *Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as APEC #1.*
2. ***Surrounding Dry-Cleaning Operations |*** *The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as APEC #2.*
3. ***Surrounding Historic Landfill |*** *The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 kilometres [km] from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as APEC #3.*
4. ***Surrounding Manufacturing Operations |*** *Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as APEC #4.*
5. ***Site Diesel Generator/Tank Operations |*** *Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as APEC #5.*

Based on the information obtained in completing this Phase One ESA, it was GHD's opinion that a Phase Two ESA was required to characterize soil and groundwater quality at the Phase One Property before an RSC can be filled with the MECP. The Phase Two ESA should evaluate the presence or absence of soil or groundwater impact to the site from all identified APECs.

GHD reviewed the results of the previous Phase One ESA relative to the boundaries of the current Phase One ESA Property boundaries (southern parking lot area). Based on the review, each of the PCAs identified above were located on off-Site properties and were not located on the current Phase One ESA Property.

GHD Phase Two Environmental Site Assessment (Overall Nokia Property) (July 19, 2022)

GHD was retained by Nokia to conduct a Phase Two ESA of the Overall Nokia Property located at 600 March Road in Kanata (Ottawa), Ontario. The Phase Two ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the site.

The Phase Two ESA was recommended based on the APECs identified in the GHD Phase One ESA (April 20, 2022), in order to assess the soil and groundwater quality at the site. The Phase Two ESA field activities were completed in May 2022, and included the advancement of boreholes into the overburden and bedrock stratigraphy, installation of overburden and bedrock monitoring wells, soil field screening and groundwater monitoring, and the collection and laboratory analysis of soil and groundwater samples for testing of contaminants of potential concern (CPCs) based upon visual and olfactory observations. CPCs included metals and inorganic compounds, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), and/or general chemistry parameters.

A summary of the analytical results of the soil and groundwater quality are presented below:

– **Soil Quality |** Based on a review of the soil analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards. No associated impacts were noted for APEC #5 (Diesel Generator/Tank Operations).

- **Groundwater Quality |** Based on a review of the groundwater analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Overall Nokia Property), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry-Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Diesel Generator/Tank Operations).
- There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs. GHD recommended that monitoring wells (including the wells deemed dry during the May 2022 investigation) in the northern half of the Nokia property be resampled during future residential planning and when applying for a Record of Site Condition with the MECP. This recommendation is to ensure groundwater monitoring and quality data are up to date.

GHD Groundwater Sampling Activities Letter (August 12, 2024)

GHD conducted groundwater sampling activities at the site on April 27, 2023, to determine current groundwater conditions as part of Nokia's due diligence and future municipal planning approval purposes. Groundwater sampling was conducted at six existing groundwater monitoring wells installed in 2022 (BH01-22, BH02-22, BH03-22, BH06-22, BH11-22, and BH12-22) and three new monitoring wells installed in 2023 (BH3-23, BH4-23, and BH6-23). These well locations are presented on **Figure 2**.

Based on the site conditions and the definition of area of natural significance provided in O. Reg. 153/04, the groundwater analytical results on the site were assessed to the MECP Table 7: Full Depth Generic Site Conditions Standards for Shallow Soils in a Non-Potable Ground Water Condition (MECP Table 7 Standard). Based on GHD's review, all parameters were reported below MECP Table 7 Standards for the groundwater samples collected on April 27, 2023. These results are similar to the groundwater analytical results from the 2022 Phase Two ESA. GHD reported that no further groundwater sampling activities were recommended at that time.

GHD Phase One Environmental Site Assessment (September 5, 2024)

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the parking lot property that is currently part of the overall Nokia property (Overall Nokia Property) located at 600 March Road in Kanata (Ottawa), Ontario; the parking lot property will be hereinafter referred to as the Site or Phase One Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 hectares (ha) in size and currently consists of surface level car parking and landscaped areas. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04, as amended. It was GHD's understanding that Nokia intended to amend the zoning of the property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the site.

Based on the results of the Phase One ESA, including the site inspection, information provided by site representatives and regulatory agencies, documents reviewed, and the review of site history, no APECs were identified to be associated with the Site.

Based on the information obtained in completing the Phase One ESA, it was GHD's opinion that a Phase Two ESA was not required to characterize soil and groundwater quality at the Phase One Property.

Mapping and Assessment of Former Industrial Sites, City of Ottawa

GHD completed a review of the report titled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" by Interra Technologies Ltd, dated July 1988, which provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa as of July 1988. Based on GHD's review, there is no coverage of the Site provided in this report.

Based on review of above previous environmental documents, all applicable soil and groundwater samples collected at the Site in 2022 and/or 2023 were below applicable MECP Standards. Therefore, previously identified PCAs/APECs do not have the potential to contribute to any current APECs at the Site.

4.2 Environmental Source Information

4.2.1 Regulatory Review

No concerns, complaints, notices of violation, or directives of an environmental nature issued against the Site by federal, provincial, or municipal environmental regulatory agencies have been disclosed to GHD.

Ministry of Environment, Conservation and Parks (MECP)

Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did submit a request to the MECP under the Freedom of Information (FOI) and Protection of Privacy Act relating to the Overall Nokia Property. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. A response from the MECP was received on September 7, 2022. It should be noted that a new FOI request was not completed for this Phase One ESA, due to operations at the Site (limited to parking lot) having not substantially changed since completion of the GHD Phase One ESA report in 2022. The MECP letter included the following documents:

- Waste Generator information for Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812; see Section 4.2.2 for additional waste class information).
- May 18, 2001, MECP Occurrence Report regarding MECP inspection to determine Alcatel's compliance with Regulation 347. It was reported that Alcatel stored subject wastes for more than 90 days without filing a waste storage report form as required. On June 22, 2001, MECP received the waste storage report form, and no further action required.
- July 12, 2001, MECP Occurrence Report to issue emergency manifest number for waste class #263A (waste poisonous solids nos "2 cyclohexyl-4, 6-dinitrophenol).
- August 14, 2001, MECP Occurrence Report to issue emergency manifest number for waste class #265L (liquid industrial waste "glue).

No PCAs or APECs were identified based on information provided in MECP documents.

City of Ottawa

Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did submit a request to the City of Ottawa to complete a Historic Land Use Inventory (HLUI) database search relating to the Overall Nokia Property and Phase One Study Area. A response from the City of Ottawa was received on February 24, 2022. It should be noted that a new HLUI request was not completed for this Phase One ESA, due to operations at the Site (limited to parking lot) and adjacent properties having not substantially changed since completion of the GHD Phase One ESA report in 2022.

The following PCAs and/or APECs were identified by GHD associated with the Site and Phase One Study Area:

North

– Nokia Office Complex. Due to previous "Design and Manufacture of Digital Communication Products" comment under former Newbridge Networks Corp at the Site, these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings; therefore, these operations were not identified as having the potential to contribute to an APEC at the Site.
– Due to previous "Design and manufacture blast mate seismographs and watch mate wandering patient systems" comment under Instantel Inc. located northeast of the Site at 362 Terry Fox Drive, these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.

West

– The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– The operation of dry cleaners at 591 March Road (Hillary's Dry Cleaners and Miller's Quality Dry Cleaners) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– The "Semiconductors & Related Devices (Mfrs)" operations of XILINX Inc located west of the Site at 50 Hines Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely and these operations were not identified as having the potential to contribute to an APEC at the Site.

South

– The "Electronic Equipment & Supplies-Mfrs" operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.

Technical Standards and Safety Authority (TSSA)

Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did submit a request to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of storage tanks at the Site and select properties within the Phase One Study Area. An email response was received from the TSSA on January 6 and 7, 2022, indicating that there were no records in their database indicating fuel storage tanks are at the Site or at subject addresses. It should be noted that a new TSSA request was not completed for this Phase One ESA, due to operations at the Site (limited to parking lot) and Overall Nokia Property having not substantially changed since completion of the GHD Phase One ESA report in 2022.

4.2.2 Environmental Database Search

Included in GHD's 2022 Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD contracted ERIS to conduct a search of available federal, provincial, and private environmental databases within the Phase One Study Area. The database searches were completed to assist in the identification of environmental conditions at the Site and on adjacent/surrounding properties. GHD reviewed the search results and has summarized applicable environmental findings below for the Site, the overall Nokia Property (adjacent property), and adjacent/surrounding properties within 250 m of the boundary of the Site (parking lot).

As part of the 2025 Phase One ESA, GHD contracted ERIS to complete an updated database search for the current Phase One Study Area (parking lot, plus 250 m of the center of the Site). A copy of the 2025 ERIS database search report is presented in **Appendix C**. GHD reviewed the search results and has either updated or added applicable environmental findings for the Site, Overall Nokia Property, and adjacent/surrounding properties based on both the 2022, 2024 and 2025 ERIS database searches.

Site

The Site was only identified in the Water Well Information System (WWIS) for monitoring wells installed in 2022. No other relevant records were identified for the Site.

Overall Nokia Property

The adjacent Nokia Office Complex to the north was identified in the ERIS report to contain the following records:

– Scott's Manufacturing Directory (SCT) | Newbridge Network Corporation, Alcatel Canada, and Alcatel-Lucent Canada Inc. were identified with the following operations:
  - Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
  - Semiconductor and Other Electronic Component Manufacturing
  - Electronic Components, Not Elsewhere Classified
  - Computer and Peripheral Equipment Manufacturing
  - Telephone Apparatus Manufacturing
– O. Reg. 347 Waste Generators Summary (GEN): Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812 between 2000 and 2022) were identified as operating under the following waste classifications:
  - 112 – Acid Waste – Heavy Metals
  - 121 – Alkaline Wastes – Heavy Metals
  - 122 – Alkaline Wastes – Other Metals
  - 145 – Paint/Pigment/Coating Residues
  - 146 – Other Specified Inorganics
  - 148 – Inorganic Laboratory Chemicals
  - 212 – Aliphatic Solvents
  - 213 – Petroleum Distillates
  - 242 – Halogenated Pesticides
  - 252 – Waste Oils & Lubricants
  - 263 – Organic Laboratory Chemicals
  - 331 – Waste Compressed Gases

Due to above noted records, the adjacent operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) and only limited quantities of chemicals and waste were stored in secure/contained portions of the Site buildings. In

addition, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all soil and groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these adjacent operations were not identified as having the potential to contribute to an APEC at the Site.

Adjacent/Surrounding Properties

A summary of the pertinent findings from the ERIS database search for adjacent/surrounding properties within the Phase One Study Area is provided below.

– Sanmina Corporation on the adjacent property to the south at 500 March Road was identified in the GEN database, with operations noted as "semiconductor and other electronic component manufacturing", and Waste Generator No. ON5466737 (2015-2022) for various waste streams; and in the NPR2 and PFHA databases, associated with lead and various speciated VOCs as part of communications equipment manufacturing. In addition, two EASR records for SCI Brockville Corp at 528 March Road (same adjacent property as 500 March Road) identified a Standby Power System registered as of 8/25/2015 (fuel source not identified). The Sanmina operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– Miller's Quality Dry Cleaners at 591 March Road located northwest of the Site, across March Road (approximately 150 m distance was identified in the GEN database with Waste Generator No. ON2095500 (1995-2001) for Waste Class 241 (halogenated solvents). These dry-cleaning operations are identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– Excalibur Systems, DRS EW & Network Systems, OneChip Photonics, and GaN Systems Inc. at 50 Hines Road located southwest of the Site (approximately 160 m distance) was identified in the SCT and/or GEN database with operations noted as "Semiconductors & Other Electronic Component Manufacturing" and/or other machinery and instruments manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.Sidense Corp, TeleWatch Monitoring Services, and Metconnex Inc. at 84 Hines Road located west of the Site (approximately 175 m distance) was identified in the SCT or GEN database with operations noted as "Semiconductors & Other Electronic Component Manufacturing" and/or other machinery and instruments manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.
– Flexus Electronics. Telemus Inc., 954050 Ontario Inc., and Ultra Electronics at 88 Hines Drive located west of the Site (approximately 175 m distance) were identified in the SCT and/or GEN databases with operations noted as "Semiconductors & Other Electronic Component Manufacturing", as well as other machinery and/or instrument manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building

structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Elcombe Systems Limited, Smart Technologies Inc., Sciemetric Instruments Inc., and Pleora Technologies Inc. at 359 Terry Fox Drive located northeast of the Site (approximately 240 m distance) were identified in the SCT and/or GEN database with operations noted as manufacturing of communication equipment, computer, semiconductor, device and/or other electrical component manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- C-MAC Electronic System at 425 Legget Drive located southeast of the Site (approximately200 m distance) was identified in the GEN database with operations noted as "Computer & Peripheral Equipment Mfg", as well as listed as handling various waste solvents, chemical, and oils. Solectron EMS Canada was identified in the SCT database with operations noted as "Semiconductor and Other Electronic Component Manufacturing". These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- Lockheed Canada Inc. and Lockheed Martin Canada Inc. at 3001 Solandt Road located southeast of the Site (approximately 220 m distance) were identified in the CA and ECA databases with approved/cancelled industrial air permits for paint spray booths and ovens. Under the SCT database Lockheed Martin Canada Inc. was listed with operations noted as "Semiconductor and Other Electronic Component Manufacturing" and other instrument manufacturing, as well as listed with "Aerospace Product and Parts Manufacturing" operations and having various waste solvent, paints, chemicals, and oils under the GEN database. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- A standby emergency diesel generator at 495 March Road located south of the Site (approximately 200 m distance) was listed in the CA database and is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site this operation was not identified as having the potential to contribute to an APEC at the Site.
- A spill of 30 litres of engine oil was reported in the SPL database at the intersection of Terry Fox and March Road (adjacent to the northwest of the Overall Nokia Property) on September 1, 2010. Based on the quantity of spilled oil, it is unlikely this release will have adversely affected the Site.
- A spill of unknown quantity of diesel fuel was reported in the SPL and HINC databases at 515 Legget Drive (east of the Site, across Legget Drive) on November 13, 2008. The reason for the spill was unknown but was cleaned with environmental impact not anticipated. It is unlikely this release will have adversely affected the Site.
- A spill of 150-250 litres of diesel fuel was reported in the SPL database at 70 Hines Road (Legion Branch 638; west of the Site, across March Road) on August 21, 2019. Rogers Communications was listed as client, with diesel released to ground due to cracked line (material failure – poor design/substandard material). Although clean-up not explicitly mentioned, it is unlikely this release will have adversely affected the Site. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, this off-Site operation was not identified as having the potential to contribute to an APEC at the Site.
- A spill of an unknown quantity of diesel fuel was reported in the SPL database at 525 Legget Drive located northeast of the Site (approximately 215 m distance) on March 27, 2023. The spill originated from a motor vehicle with the receiving medium being land and a private catch-basin. Although clean-up not explicitly mentioned, it is unlikely this release will have adversely affected the Site.

4.3 Physical Setting

4.3.1 Aerial Photographs

Aerial photographs were reviewed to generally document the development of the Site and properties in the vicinity of the Site, and to identify the existence of any significant areas of actual or potential environmental concern at the Site. Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), aerial photographs of the Site and surrounding area reviewed by GHD included the years 1934, 1945, 1952, 1960, 1976, 1985, 1991, 1999, 2009, and 2019 (source: National Air Photo Library (NAPL); City of Ottawa geoOttawa website). It should be noted that limited to no changes were observed by GHD reviewing the 2021 and 2022 aerial photographs (source: City of Ottawa geoOttawa website).

Based on the history of the Site and the quantity and quality of the aerial imagery available for review, the selected time period between aerial photographs was determined to be suitable for the purposes of this Phase One ESA.

Year	Site	Neighbouring Properties
1930	The Site appears to be vacant (no buildings) or used for agricultural purposes.	March Road is located west of the Site. Neighbouring properties appear to either be vacant (no buildings) or used for agricultural purposes or occupied by residential dwellings.
1945, 1952, 1960, 1976, 1985	No significant changes in land use had occurred since 1930. Some surface disturbances were noted initially in 1976 photo (unknown purpose and unchanged as of 1985 photo).	No significant changes had occurred on the neighbouring properties since 1930, with the exception of the following: – New residential structure observed as of 1952 on adjacent property to the west (center). – Trails and new structure(s) observed in wooded area as of 1960 on adjacent property to the west (south). – New commercial structure observed as of 1976 on adjacent property to the west (north); expanded structure and parking areas observed on 1985 photo. – Hines Road to the west observed as of 1985 photo.
1991	The Site appears to be vacant	Significant changes at neighboring properties have occurred as follows: – New building structures (existing office buildings), driveways and parking lots have been constructed on the northern adjacent property. – Terry Fox Drive (north) has been constructed, and Legget Drive (east) and McKinley Drive (north) are being constructed. – Two new commercial buildings with parking lots constructed to the northeast of the Site (one north and one south of Terry Fox Drive). – One new commercial building and parking lots constructed to the south of the Site. – Four new commercial buildings with parking lots constructed to the west of the Site across March Road. – A new housing development constructed to the northwest of the Site across intersection of March Road and Terry Fox Drive.
1999	Large parking lots have been constructed on the Site.	Significant changes at neighboring properties have occurred as follows: – New building structures (existing office buildings) have been constructed where 1991 parking lots were observed with additional driveways and parking observed. – New commercial buildings and parking have been constructed to the north of the Site across Terry Fox drive, as well as new residential development on east side of McKinley Drive. – A new commercial building with parking lots constructed to the northeast of the Site (north of Terry Fox Drive).

Year	Site	Neighbouring Properties
		– Two new office towers (linked by lower-level building) with parking lots, as well signs of further construction, were observed to the east of the Site (across Legget Drive). – One new commercial building with parking lots constructed to the southeast of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed to the west of the Site across March Road.
2009	No significant changes have occurred with the property land use since 1999.	Significant changes at neighboring properties have occurred as follows: – Two new office towers, the Brookstreet Hotel with golf course and parking structure, and associated parking lots have been constructed to the east of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed west and southwest of the Site (across March Road). – A gas station has been constructed north of the Site along March Road.
2019	No significant changes have occurred with the property land use since 2009.	Significant changes at neighboring properties have occurred as follows: – One new commercial structure with parking lots constructed on the adjacent property to the east.

Based on GHD's review of the aerial photographs, no PCAs and/or APECs were identified.

4.3.2 Topography, Hydrology, and Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry. The mapping shows the topography at the Site and in the Phase One Study Area as relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. The Ottawa River is located approximately 3.2 km northeast from the Site limits. Generally, stormwater in the Phase One Study Area is anticipated to drain to municipal catch basins and by infiltration.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022) and “Geotechnical Investigation and Hydrogeological Investigation” report (dated March 13, 2024), geotechnical and hydrogeological assessments were carried out in 2022 (Overall Nokia Property) and in 2023 (Site), respectively, to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Six boreholes and ten monitoring wells have been advanced at the Site to auger refusal and/or into bedrock. A summary of applicable subsurface conditions is noted below:

– Topsoil and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.7 metres below ground surface (mBGS). Silty clay to clay deposit was encountered below topsoil or subbase material.
– Glacial till and/or bedrock were encountered at depths ranging from 0.2 to 4.4 mBGS in applicable boreholes.
– Groundwater was not originally encountered in the overburden stratigraphy at BH01-22 in February 2022. However, groundwater elevations on May 26, 2022, and April 27, 2023, were reported at 77.61 and 78.60 metres above mean sea level (mAMSL), respectively. It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 mAMSL on February 9, 2022. Additional, groundwater elevations in bedrock were collected on May 26, 2022 (ranging from 74.19 to 79.69 mAMSL) and on April 27, 2023 (74.52 to 79.93 mAMSL). The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook. The actual direction could not be confirmed based on varied groundwater levels in the bedrock, likely due to location of bedrock seams).

4.3.3 Fill Materials

Based on review of aerial photographs, observations made by GHD during the Site inspection, and subsurface conditions documented in the 2022 and 2023 GHD Geotechnical and Hydrogeological Investigation Reports (refer to

Section 4.3.2), fill material at the Phase One Property is limited to granular material associated with the construction of the parking lot.

4.3.4 Water Bodies and Areas of Natural Significance

There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The closest significant surface water body is the Ottawa River located approximately 3.2 km northeast of the Site.

In accordance with O. Reg. 153/04, an "area of natural significance" is defined as any of the following:

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance.
3. A wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species.
7. An area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A summary of GHD's review is provided below:

1. The Site is not an area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. The Site is not considered to be an area of natural and scientific interest (life science or earth science) as identified by the Ministry of Natural Resources as having provincial significance.
3. The Site is not a wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. The Site is not designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. The Site is not an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. The Site is not an area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species. GHD conducted a search to determine if threatened or endangered species are present within or adjacent to the Site. According to the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), Species at Risk in Ontario (SARO), and the Ontario Ministry of Natural Resources and Forestry (MNRF), no species were listed as threatened and/or endangered within the Phase One Study Area.
7. The Site is not an area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.

8. The Site is not located within an area designated as part of the Oak Ridges Moraine natural core area or natural linkage area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. The Site is not an area set apart as a wilderness area under the Wilderness Areas Act.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

4.3.5 Well Records

A search of the MECP Water Well Information System (WWIS) database was conducted as a component of the ERIS database search completed for the Site (refer to **Appendix C**). No monitoring wells were registered on the Site prior to GHD subsurface investigations in 2022 and 2023.

Eight wells were registered in the surrounding properties including:

– Four domestic water supply well and one industrial supply well installed to the west of the Site (across March Road) between 1952 and 1969.
– One test hole installed to the south of the Site (across March Road) in 2010.
– One test hole installed to the west of the Site (across March Road) in 2014.
– One domestic water supply well installed to the south of the Site (3001 Solandt) in 2017.

The Phase One Property is currently located in an area municipally serviced with potable water. The current status of these wells is unknown.

4.3.6 Site Operating Records

No Site operating records were not provided to GHD as part of the Phase One ESA.

5. Interviews

As part of the Phase One ESA site inspection, GHD interviewed Mr. Wayne Carroll (Building Operations Manager) on June 26, 2025 (Site Representative). Mr. Carroll has been familiar with the Site and associated Site operations for approximately 30 years. GHD also interviewed Mr. Carroll during the 2022 and 2024 Phase One ESA.

The interview completed with the Site Representative was focused on the historical and current use of the Phase One Property, and the topics listed in Sections 13 and 14 of Schedule D of O. Reg. 153/04. Relevant information provided to GHD by those interviewed has been summarized in applicable sections of Section 6 – Site Reconnaissance.

6. Site Reconnaissance

6.1 General Requirements

On June 26, 2025, Ms. Emma Stewart and Mr. Rehoboth Mubedi of GHD conducted a Site reconnaissance visit of the Phase One Property between 10 and 11 a.m. Weather conditions were sunny with some rain periods with an approximate temperature of 18°C.

Photographs from the Site visit are included in **Appendix D.**

6.2 Specific Observations at Phase One Property

6.2.1 Property and Building

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 ha in size and is irregular in shape. The Site is currently occupied with surface-level parking lot (asphalt) and landscaped areas. There are no buildings on-Site, but the parking lot is associated with the adjacent Nokia Office Complex to the north.

6.2.2 Current Site Operations

The Phase One Property is currently used as a parking lot.

6.2.3 Historical Site Operations

Based on a review of the historical records for the Site, the Site was historically vacant or utilized for agricultural purposes.

6.2.4 Utility Services

The Site is serviced with electricity (parking lot light poles) provided by Hydro Ottawa.

The Site is currently serviced with municipal storm sewer services. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catch basins in parking lot and driveways, as well as from other surrounding properties.

The Site Representative was not aware of any historical utility and/or water services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

6.2.5 Underground Storage Tanks (USTs)

No underground storage tanks or evidence of previously existing USTs were observed by GHD at the time of the Site inspection. The Site Representative was not aware of any current or historic USTs.

6.2.6 Above Ground Storage Tanks (ASTs)

No above ground storage tanks or evidence of previously existing ASTs were observed by GHD at the time of the Site inspection. The Site Representative was not aware of any current or historic ASTs at the Site.

According to the Site Representative, the following ASTs were identified at the adjacent Nokia Office Complex to the north of the Site:

– Exterior 4,540 litre diesel tank located next to the generator outbuilding. The AST is double-walled on concrete slab (no containment walls). AST was installed in 2011 to replace a similar AST. The generator was to be initially fuelled with a flat tank located below the generator in the outbuilding but was never reportedly used and the flat tank was left in place.
– A 2,220-litre diesel tank located inside Hydro Vault and Generator building. The AST is double-walled on concrete slab. AST was installed in approximately 2003 (manufactured date) to replace a smaller AST.
– A 935-litre diesel tank (ground floor) and 454 litre diesel day tank (penthouse next to generator) are located inside Tower 3. Both tanks are located in concrete secondary containment. According to the Site Representative, these ASTs were installed in 2011 to replace similar ASTs.

The Site Representative was not aware of any other current or historic ASTs and was not aware of any spills/releases associated with current/historic ASTs or generators on the adjacent property.

The operation of the adjacent ASTs is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, based on GHD's Phase Two ESA report of the Overall Nokia Property (dated July 19, 2022) and GHD's Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site near the adjacent property to the north were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the adjacent AST operations were not identified as having the potential to contribute to an APEC at the Site.

6.2.7 Floor Drains, Pits, and Sumps

At the time of the Site inspection, GHD did not observe any floor drains, pits, or sumps at the Site.

6.2.8 Wastewater/Sewers

According to the Site Representative and based on GHD's observations during the Site inspection, there is no wastewater generated at the Site.

6.2.9 Enhanced Investigation Property

In accordance with O. Reg. 153/04, Part VIII, Clause 32 (1) b, the Phase One Property is considered to be an Enhanced Investigation Property if it is currently used or has ever been used in whole or in part for industrial use, or commercial uses including a garage, a bulk liquid dispensing facility such as a gas station, or for the operation of dry-cleaning equipment. Based on the current and historical use of the Site, the Site is not considered an Enhanced Property.

6.2.10 Asbestos-Containing Materials (ACM)

At the time of the Site inspection, GHD did not observe any building materials that would contain asbestos.

6.2.11 Polychlorinated Biphenyls (PCBs)

At the time of the Site inspection, GHD did not observe any equipment that would contain PCBs.

6.2.12 Solid Waste/Recyclable Materials

At the time of the Site inspection, GHD did not observe any solid waste or recycling materials generated at the Site. The Site Representative was not aware of any current or historic on-Site waste disposal activities.

6.2.13 Chemical and Raw Material use and Storage

Based on discussions with the Site Representative and GHD's visual observations during the Site inspection, there are no chemicals used and stored at the Site.

6.2.14 Subject Waste/Hazardous Waste

Based on discussions with the Site Representative and GHD's visual observations during the Site inspection, no subject/hazardous wastes are generated at the Site.

6.2.15 Chemical Spills/Releases

At the time of the Site inspection, GHD did not observe any visual evidence of chemical spills or releases at the Site. A review of the Ontario Spills database included in the ERIS report (refer to Section 4.2.2) did not identify any spills associated with the Site.

6.2.16 Lead-Based Paint

At the time of Site inspection, GHD did not observe any building materials that would contain lead-based paint.

6.2.17 Chlorofluorocarbons

At the time of the Site inspection, GHD did not observe any equipment potentially containing chlorofluorocarbons (CFCs).

6.2.18 Air Emissions

At the time of the Site inspection, GHD did not observe any equipment producing air emissions.

6.2.19 Ionizing Radiation

According to the Site Representative and based on GHD observations during the Site inspection, no sources of ionizing radiation were observed at the Site.

6.3 Written Description of Investigation

The Phase One ESA included a records review, interviews with the Site Representative, a Site reconnaissance, and a review and evaluation of the information obtained during the Phase One ESA. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

The findings from the assessment carried out pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended, were previously discussed in Section 6.

7. Review and Evaluation of Information

7.1 Current and Past Uses (Site)

A summary of the current and past uses of the Site is provided below.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1930 to 1991	Unknown Newbridge Networks Corporation (1987-2002)	Vacant (no buildings) or Agricultural	Vacant (no buildings) or Agricultural	Suspected to have been undeveloped and/or used for agricultural purposes (based on aerial photographs).
1991 to Present	Newbridge Networks Corporation (1987-2002) Alcatel Canada Inc. (2002-2013) Alcatel-Lucent Canada Inc. (2013-2016) Nokia Canada Inc. (2016-Present; Nokia acquires Alcatel-Lucent)	Parking lot	Commercial and/or Industrial	Based on a review of the 1991, 1999, 2009, and 2019 aerial photographs, the Site was developed with a large parking lot.

7.2 Potentially Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153/04, under the Environmental Protection Act. The following PCAs have been identified to be on, in, or under the Phase One Property, or located within the Phase One Study Area.

Location and Description	Potentially Contaminating Activity (PCA)
Adjacent Property to the North – Exterior diesel AST and generator	#28 - Gasoline and Associated Products Storage in Fixed Tanks
Adjacent Property to the North – Newbridge Networks	#19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	#19 – Electronic and Computer Equipment Manufacturing
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	#37 – Operation of Dry-Cleaning Equipment
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	#19 – Electronic and Computer Equipment Manufacturing
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioner
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 215 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 190 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing

Location and Description	Potentially Contaminating Activity (PCA)
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks

The location of the above-noted PCAs are shown on **Figure 3**.

7.3 Areas of Potential Environmental Concern

Based on GHD's Phase Two ESA report of the Overall Nokia Property (dated July 19, 2022) and GHD's Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site in 2022/2023, as well as applicable soil and groundwater samples collected at the adjacent Nokia Office Complex in 2022, were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the PCAs identified in Section 7.2 do not have the potential to contribute to an APEC at the Site.

7.4 Phase One Conceptual Site Model

The Phase One Property is located at 520 & 570 March Road in Kanata (Ottawa), Ontario, and includes the southern parking lot property that is currently part of the Overall Nokia Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. A Site Location Map and a Site Plan are provided on **Figure 1** and **Figure 2**, respectively. The Phase One Property consists of one parcel with the following property identification number (PINs) and descriptions:

– 04517-2097 (LT) Part Lots 8 and 9 Concession 4 March Designated as Parts 5 and 7 Plan 4R35453; subject to an easement over Part 7 Plan 4R35453 in favour of Part 8 Plan 4R35453 as in OC2646751; subject to an easement over Part 5 Plan 4R35453 in favour of Part 8 Plan 4R35453 as in OC2646751; City of Ottawa.

The Phase One Property is approximately 5.2 ha in size and currently consists of surface level car parking and landscaped areas. The Phase One Property is currently owned by Nokia Canada Inc., and it is understood the Nokia is investigating development opportunities, including new high-rise office, five-storey lab building, and amenity spaces, all with associated surface parking. Prior to the Nokia owning/operating the Phase One Property, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The general topography at the Site and in the Phase One Study Area is relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022) and “Geotechnical Investigation and Hydrogeological Investigation” report (dated March 13, 2024), geotechnical and hydrogeological assessments were carried out in 2022 (Overall Nokia Property) and in 2023 (Site), respectively, to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Six boreholes and ten monitoring wells have been advanced at the Site to auger refusal and/or into bedrock. A summary of applicable subsurface conditions is noted below:

– Topsoil and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.7 mBGS. Silty clay to clay deposit was encountered below topsoil or subbase material.
– Glacial till and/or bedrock were encountered at depths ranging from 0.2 to 4.4 mBGS in applicable boreholes.
– Groundwater was not originally encountered in the overburden stratigraphy at BH01-22 in February 2022. However, groundwater elevations on May 26, 2022, and April 27, 2023, were reported at 77.61 and 78.60 mAMSL, respectively. It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 mAMSL on February 9, 2022. Additional, groundwater elevations in bedrock were collected on May 26, 2022 (ranging from 74.19 to 79.69 mAMSL) and on April 27, 2023 (74.52 to 79.93 mAMSL). The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook. The actual direction could not be confirmed based on varied groundwater levels in the bedrock, likely due to location of bedrock seams).

Based on the information reviewed and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered an area of natural significance.

The Site is serviced with electricity provided by Hydro Ottawa. The Site is currently serviced with storm sewer services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

The Phase One ESA Conceptual Site Model, including the location of PCAs, is depicted on **Figure 3**.

8. Conclusions

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, previous environmental reports, and the review of Site history, no APECs were identified to be associated with the Site.

8.1 Requirement for Phase Two ESA Before RSC Can Be Submitted

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is not required to characterize soil and groundwater quality at the Phase One Property.

8.2 Signatures

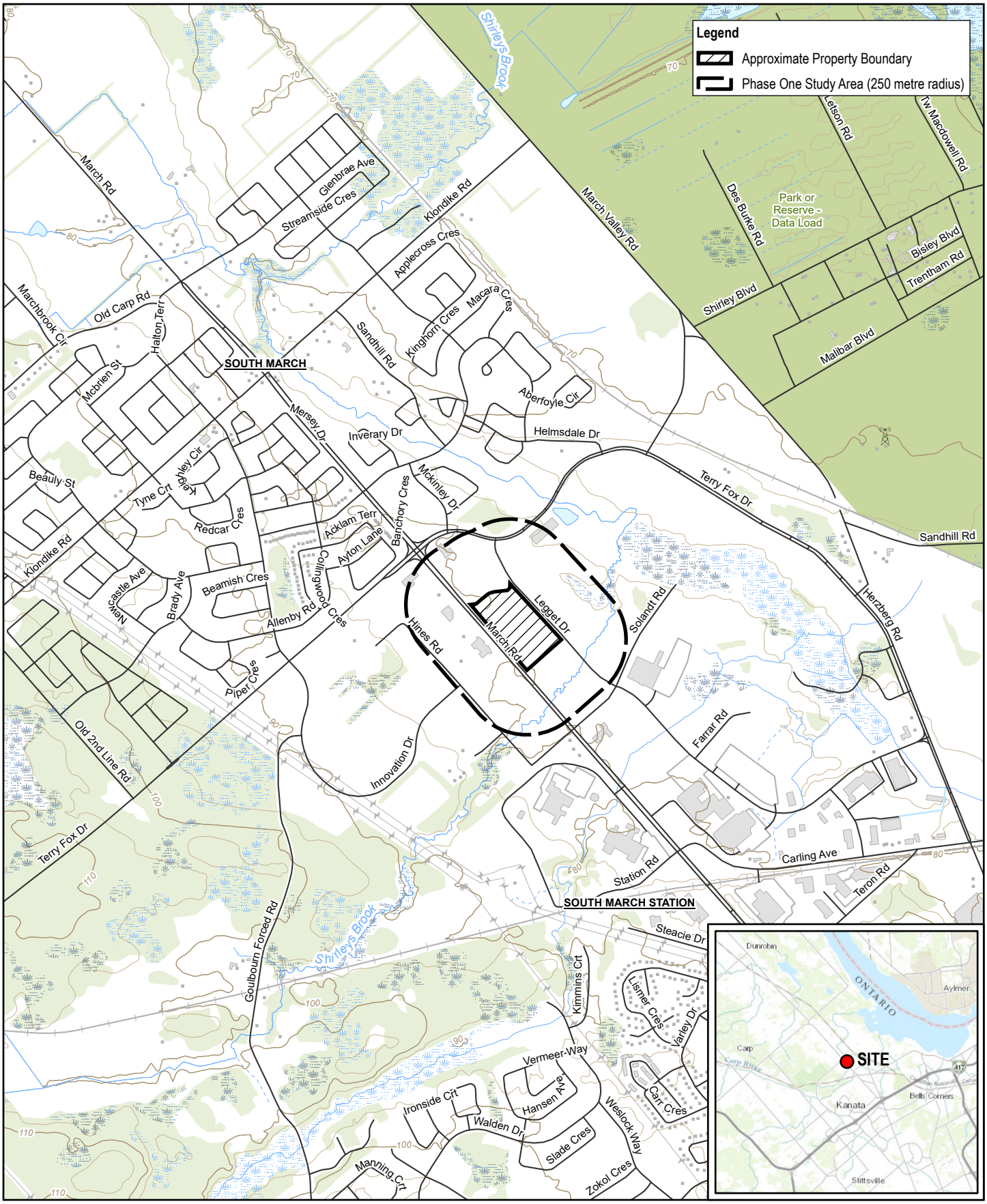
Warren Croft, Qualified Person for Environmental Site Assessment under O. Reg. 153/04, confirm the carrying out of this Phase One ESA and the findings and conclusions of this report.

9. References

Ministry of Environment. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.

Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.

Figures


Legend
Approximate Property Boundary
Phase One Study Area (250 metre radius)
Shirleys Brook
March Rd
Glenbrae Ave
Streamside Cres
Klondike Rd
Applecross Cres
Macara Cres
Kinghorn Cres
Sandhill Rd
March Valley Rd
Park or Reserve - Data Load
Des Burke Rd
Letson Rd
Tw Macdowell Rd
Bisley Blvd
Trentham Rd
Shirley Blvd
Malibar Blvd
Marchbrook Cir
Old Carp Rd
Halton Terr
Mcbrien St
SOUTH MARCH
Mersey Dr
Inverary Dr
Aberfoyle Cir
Helmsdale Dr
Terry Fox Dr
Sandhill Rd
Beauly St
Tyne Crt
Keighley Cir
Redcar Cres
Acklam Terr
Ayton Lane
Banchory Cres
Mckinley Dr
Klondike Rd
Castle Ave
Brady Ave
Beamish Cres
Coulingwood Cres
Allenby Rd
Piper Cres
Hines Rd
March Rd
Legget Dr
Soland Rd
Herzberg Rd
Old 2nd Line Rd
Innovation Dr
Farrar Rd
Terry Fox Dr
Carling Ave
Station Rd
Teron Rd
SOUTH MARCH STATION
Steacie Dr
Goulbourn Forced Rd
Shirleys Brook
Kimmins Crt
Lismer Cres
Varley Dr
Vermeer Way
Hansen Way
Carr Cres
Ironside Crt
Walden Dr
Slade Cres
Weslock Way
Manning Crt
Zokol Cres
Dunrobin
Aylmer
ONTARIO
Carp
Carp River
SITE
Kanata
Bells Corners
Stittsville
Scale 1:20,000
0 200 400 600
Metres
Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N
N
GHD
NOKIA CANADA
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
Project No. 12667557
Revision No. -
Date Jul 7, 2025
SITE LOCATION MAP
FIGURE 1
O:\GIS\PROJECTS\12667000s\12667557\GIS\Maps\Deliverables\Phase I ESA\12667557_202507_PhaseIESA.aprx
Print date: 07 Jul 2025 - 12:26
Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © King's Printer 2025.



Scale 1:2,220

0 22 44 66

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

NOKIA CANADA
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

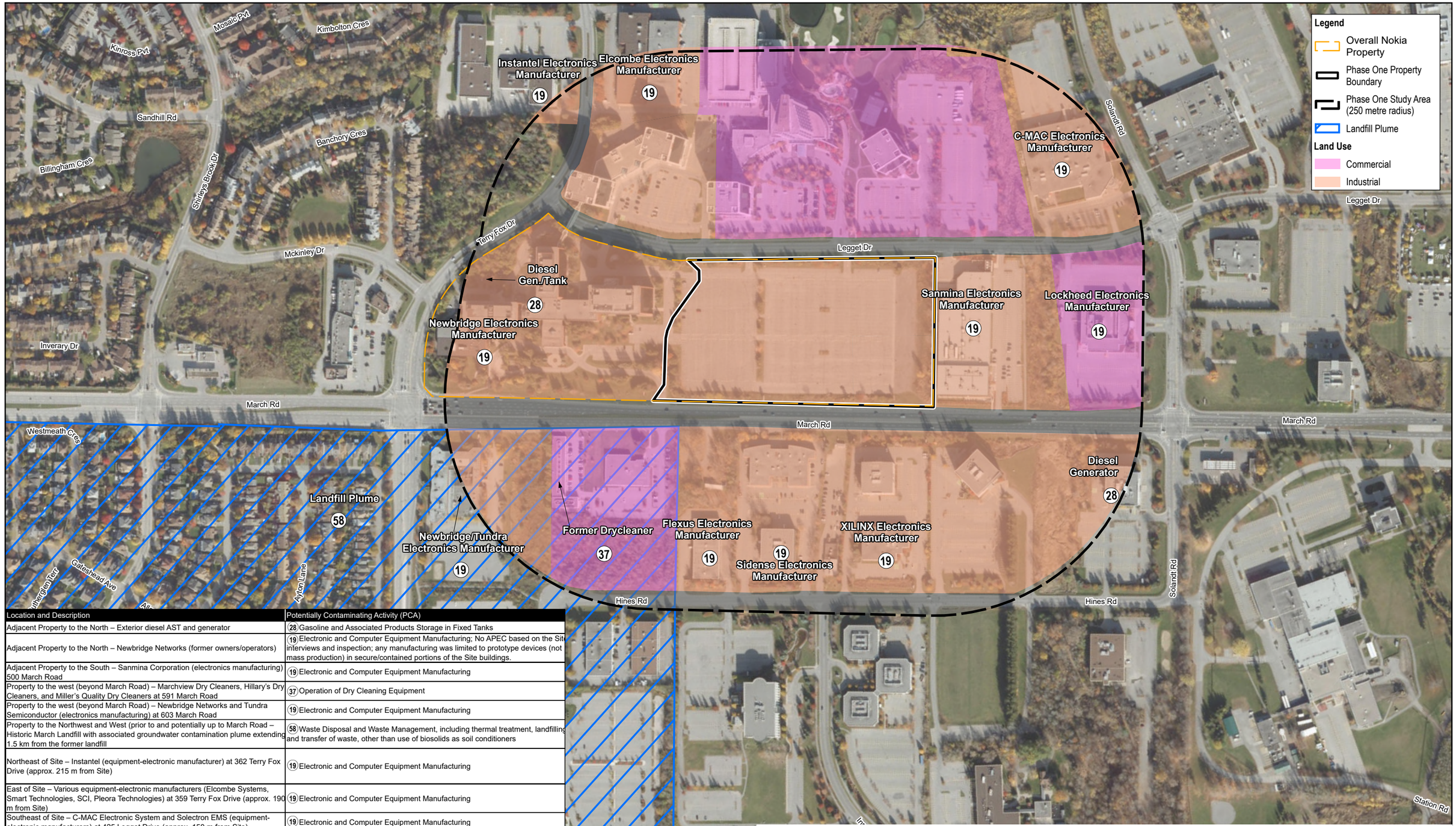
SITE PLAN

Project No. **12667557**
Revision No. **-**
Date **Oct 7, 2025**

FIGURE 2

Q:\GIS\PROJECTS\12667000s\12667557\GIS\Maps\Deliverables\Phase I ESA\12667557_202507_PhaseIESA.aprx
Print date: 07 Oct 2025 - 08:39

Data source: Imagery - City of Ottawa, 2019.



Location and Description	Potentially Contaminating Activity (PCA)
Adjacent Property to the North – Exterior diesel AST and generator	(28) Gasoline and Associated Products Storage in Fixed Tanks
Adjacent Property to the North – Newbridge Networks (former owners/operators)	(19) Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings.
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) 500 March Road	(19) Electronic and Computer Equipment Manufacturing
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	(37) Operation of Dry Cleaning Equipment
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	(19) Electronic and Computer Equipment Manufacturing
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	(58) Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 215 m from Site)	(19) Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 190 m from Site)	(19) Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	(28) Gasoline and Associated Products Storage in Fixed Tanks

Scale 1:4,300

0 43 86 129

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

NOKIA CANADA
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CONCEPTUAL SITE MODEL

Project No. **12667557**
Revision No. **-**
Date **Jul 7, 2025**

FIGURE 3

Q:\GIS\PROJECTS\12667000s\12667557\GIS\Maps\Deliverables\Phase I ESA\12667557_202507_PhaseIESA.aprx
Print date: 07 Jul 2025 - 12:28

Data source: Imagery - City of Ottawa, 2019.

Appendices

Appendix A

Curricula Vitae

A GHD Principal

Warren Croft P.ENG., QP_{ESA}

Engineering Leader



Location

Toronto, Ontario, Canada

Experience

20 years

Qualifications/Accreditations

– B.Sc., Engineering, University of Guelph, 2001
– Qualified Person for Environmental Site Assessment (QP_{ESA}), under Ontario Regulation (O.REG) 153/04

Key technical skills

– Environmental Site Assessments
– Environmental Risk Management
– Project Management

Memberships

– Registered Professional Engineer: Ontario

Relevant experience summary

Warren is a Principal/Vice-President at GHD with 20 years of experience in the management of environmental and remediation projects, including over 200 projects in Ontario relating to Phase I and II Environmental Site Assessments (ESAs), Record of Site Condition (RSC), Designated Substances Surveys (DSS), asbestos abatement, environmental remediation, brownfield redevelopment, environmental compliance/permitting, and risk assessment. He guides clients in managing environmental liabilities to support long-term business needs, including the development and implementation of risk management plans. Additionally, Warren is a QPESA for filing RSCs and submitting Phase Two ESA conceptual site models (CSMs) to support Risk Assessments (RAs). Furthermore, Warren acts as a technical ESA resource and leads ESA components of many large, multidisciplinary infrastructure projects throughout the province.

Municipal/Public Infrastructure

RSC Guidance

Technical Advisor
RSC Guidance | City of Barrie | Barrie, ON | 2019 – present

Warren is the Technical Advisor for the preparation of a RSC guidance document to assist City of Barrie in evaluating development applications. The guidance documents outlines how the RSC filing process impacts different types of development applications, and identifies the roles/ responsibilities of different City departments in confirming compliance with Ontario Regulation 153/04.

Project Director

Toronto Street and Simcoe Street Environmental Investigation | City of Barrie | Barrie, ON | 2018 – 2019

Warren is the Project Director for an environmental investigation to document potential extent of impact in the area of Toronto Street and Simcoe Street in Barrie. Warren met with City staff to provide guidance regarding environmental conditions, and options to investigate and/or remediate identified impacts.

ESA Lead

Northeast Vaughan Water and Wastewater Servicing | York Region, ON | 2017 – 2019

Warren acts as the Environmental Site Assessment Lead for the completion of ESA screening and soil/groundwater sampling strategy for the Northeast Vaughan Water and Waster Servicing project. Warren

also provided guidance to the project team regarding ESA requirements for potential land acquisition.

Soil Characterization Program

Environmental Lead |
Waterfront Toronto | Toronto, Ontario, Canada | 2016

Technical advisor during the environmental investigation of a portion of Toronto's Port Lands area, in support of the re-routing of the mouth of the Don River. Supported GHD's project management team and field team in the interpretation of historical records, and completion of soil and groundwater sampling at the site.

Upper York Sewage Solutions (UYSS)

ESA Lead
Regional Municipality of York | East Gwillimbury, Ontario, Canada | 2014 - 2016

Warren acts as the Environmental Site Assessment Lead for the completion of Phase One and Two ESAs to support property acquisition and project planning for the Upper York Sanitary Sewer project. He works with the other discipline leads to ensure that project milestones are met and the client's environmental liability is minimized during property acquisition and construction.

Burnhamthorpe Road Watermain Twinning

Environmental Lead |
Regional Municipality of Peel | Mississauga, Ontario, Canada | 2014 - 2016

Warren acts as environmental lead and completed a Contaminant Inventory and a Phase One ESA to support the Region's project planning. Warren provided guidance regarding identifying higher risk properties and potential contaminant sources within proposed construction areas, and provided recommendations regarding environmental risk at the higher risk properties.

480 Lakeshore Blvd. East

Environmental Lead |
Waterfront Toronto | Toronto, Ontario, Canada | 2011 - 2016

Warren acted as the technical lead and primary Site Assessor for the completion of a Phase I ESA of a former bulk fuel storage facility. Warren provided guidance to the project team regarding the findings of the Phase I ESA and the requirements for soil and groundwater sampling at the Site. Warren subsequently supported the construction of specific Risk Management Measures to comply with City of Toronto requirements.

Seneca College King Campus Expansion

Project Manager |
Seneca College | King City, Ontario, Canada | 2014 - 2016

Warren acted as Project Manager for the completion of environmental and geotechnical investigations at King City campus of Seneca College in support of a proposed building expansion following Infrastructure Ontario's AFP model. Based on the results of preliminary environmental investigations, a Due Diligence Risk Assessment was completed to document potential environmental risks associated with road salt impacts to the Site. GHD's team worked with Seneca College staff to complete the work at an active educational facility, while minimizing impacts to staff and students. He coordinated site access, including work around entrance roads, along Dufferin Street, and within active agricultural fields and acted as technical lead for environmental components of the project.

Etobicoke General Hospital

Project Manager |
William Osler Health System | Etobicoke, Ontario, Canada | 2014 - 2015

Warren acted as Project Manager for the completion of environmental and geotechnical investigations at Etobicoke General Hospital in support of proposed redevelopment. Coordinated site access, including work around emergency room entrance, main entrance, and visitor parking areas. Acted as technical lead for environmental components of the project.

Milton District Hospital

Environmental Lead |
Shared Services West | Milton, Ontario, Canada | 2013 - 2014

Warren acted as the Environmental Lead for environmental investigations at Milton Hospital, including the completion of Phase One and Two ESAs and coordination of asbestos sampling activities. Worked with the geotechnical lead to ensure that appropriate environmental samples were collected, while minimizing the number of boreholes/monitoring wells at the site. Assisted Milton Hospital and Shared Services West staff in negotiating environmental management requirements with the municipality and Infrastructure Ontario.

Infrastructure Ontario

Thistletown Regional Campus

Project Manager |
Infrastructure Ontario (IO) | Toronto, Ontario, Canada | 2013 - presents

Project manager for the completion of Phase I and II ESAs, completion of designated substances surveys, design and oversight of remedial program, and completion of a due diligence risk assessment at the Thistletown Regional Campus in Toronto, Ontario. Coordinated access with facility personnel, and developed specific health and safety protocols to ensure that investigative activities did not pose a risk to property residents.

Ontario Place Redevelopment

Project Manager |
Infrastructure Ontario | Toronto, Ontario, Canada | 2012 - present

Warren acts as Project Manager for due diligence activities at Ontario Place, which have included Designated Substances Survey, Building Condition Surveys, Phase One and Two ESAs, and Geotechnical Investigations. Warren is currently managing the completion of a Phase One and Two ESA, Risk Assessment, and Record of Site Condition for a portion of the east island, to support the Urban Park and Waterfront Trail project. Warren also provides guidance to Infrastructure Ontario and their park design team regarding the design and construction of Risk Management Measures and imported soil quality requirements, to ensure that ongoing construction is consistent with the Risk Assessment and that the soil brought to the proposed park is suitable for use at Ontario Place.

Vendor of Record, Central and Southwestern Regions

Technical Lead |
Infrastructure Ontario | Ontario, Canada | 2012 - 2016

Warren acts as a technical lead and primary contact for GHD's Vendor of Record contract with Infrastructure Ontario, which has included Phase One and Two ESAs, designated substances surveys, remediation oversight, Risk Assessment, and Records of Site Condition. Warren attends monthly vendor calls, tracks performance of GHD's projects, acts as a key technical contact regarding environmental site assessments, and also manages a variety of Infrastructure Ontario projects.

Proposed ErinOak Kids

QP$_{ESA}$ |
Infrastructure Ontario | Brampton, Ontario, Canada | 2014 - 2015

QPESA for the filing of Records of Site Condition for two parcels of land associated with the proposed ErinOak Kids Brampton facility. Coordinated the completion of Phase One and Two ESAs, provided guidance to the current property owner (City of Brampton) regarding the RSC process and the documents that must be prepared and signed by the owner to support the RSC filing, and coordinated with MOECC Brownfields group staff regarding the RSC filing. Filed two RSCs on the Ontario Environmental Site Registry, which were acknowledged by MOECC.

Proposed Mackenzie Vaughan Hospital

Project Manager |
Infrastructure Ontario | Vaughan, Ontario, Canada | 2013 - 2015

Warren acted as Project Manager for the completion of environmental, geotechnical, and hydrogeological investigations at the proposed Mackenzie Vaughan Hospital. The project was completed following Infrastructure Ontario's Alternative Financing and Procurement (AFP) Guidance Document for Environmental and Geotechnical Investigations. GHD also worked with staff and consultants from the City of Vaughan to support the remediation of localized soil impacts and the filing of a Record of Site Condition. He coordinated site access and acted as technical lead for environmental components of the project.

Due Diligence

Project Manager |
Infrastructure Ontario | Ontario, Canada | 2013 - 2015

Project Manager for the completion of a Designated Substances Survey and Phase One ESA at a potential redevelopment property in Toronto. Subsequently provided technical guidance to Infrastructure Ontario regarding the disentanglement of the building heating system from adjacent structures, including the removal of asbestos on piping. Provided recommendations regarding building ventilation requirements to prevent mold growth. Currently working with Infrastructure Ontario to develop abatement specifications for the Designated Substances in the building.

Former St.Thomas Psychiatric Facility

Project Manager |
Infrastructure Ontario | St.Thomas, Ontario, Canada | 2012 - 2013

Project manager for the completion of a Phase One ESA and Soil/Groundwater quality investigation at the St. Joseph's Regional Mental Health facility in St. Thomas, Ontario. Completed interviews with facility personnel, inspected client and resident spaces, and coordinated health and safety requirements for the completion of the soil and groundwater sampling activities.

Environmental Specialist (Secondment)

Infrastructure Ontario | Toronto, Ontario, Canada | 2010 - 2012

Warren assisted Infrastructure Ontario in the management of environmental consultants and contractors at the West Don Lands in Toronto, Ontario in support of the redevelopment of a large brownfield property into the 2015 Pan Am Games Athletes' Village. Tasks included coordination of consultants and contractors, providing guidance to ORC staff on the environmental approvals process, and review of Phase I/II ESAs, Risk Assessments, Certificates of Property Use, and Records of Site Condition completed in accordance with the recently revised Regulation 153/04. Attended meetings with stakeholders including Ministry of Environment, City of Toronto, Waterfront Toronto, Infrastructure Ontario, and prospective developers to support Infrastructure Ontario staff in their role.

Industrial/Private Infrastructure

Risk Assessment

Project Manager |
Confidential Client | Toronto, Ontario, Canada | 2013 - present

Project Manager and QP (ESA) for the completion of a Phase One and Two ESA, and Risk Assessment at an active industrial property in Toronto, Ontario, completed to support the sale of the property, and to document liabilities at the time of the sale.

Risk Assessment

Project Coordinator |
Confidential Client | Mississauga, Ontario, Canada | 2012 - present

Project Coordinator and QPESA for a Phase One ESA, Phase Two ESA, and Risk Assessment of an industrial brownfield site. The project included development of risk based remedial targets for soil remediation, followed by the completion of a Risk Assessment to manage remaining soil and groundwater impacts.

Proposed Holt Pit

ESA Support |
Rice Commercial Group Ltd. | Newmarket, Ontario, Canada |2017 - 2019

Warren provided Phase One and Two ESA support to the project team related to the proposed Holt Pit. Warren's role focused on Phase One ESA technical review, and confirming that the ESAs met the minimum requirements of Ontario Regulation 153/04, as amended, as well as coordinating sampling requirements with other technical leads.

Healthcare Centre Redevelopment

Environmental Lead |
West Park | Toronto, Ontario, Canada| 2016

Environmental lead for the completion of Phase One and Two Environmental Site Assessments in support of the proposed expansion of the facility. Supported client decision making regarding environmental risk, potential sources of environmental impact, and soil/groundwater management during future construction.

Environmental Due Diligence

Project Manager|
Confidential Client | Toronto, Ontario, Canada | 2016

Warren acts as the project manager for the completion of Phase I ESAs, Phase II ESAs, property condition assessments, remedial cost estimates, and risk evaluations for three industrial properties. GHD's client was considering the acquisition of the three properties, and required technical guidance regarding environmental liabilities, and options to mitigate environmental risks for the long-term use of the Site.

Lakeview Power Plant

Project Manager|
Ontario Power Generation | Mississauga, Ontario, Canada |
2015 - 2016

Warren acts as the project manager for ongoing environmental activities at the former OPG Lakeview Power Plant. GHD has completed extensive environmental investigations, focused environmental remediation, and Risk Assessment activities in support of OPG's land use and disposition planning. Currently supporting OPG's goals of facilitating the redevelopment of the Site in accordance with the Inspiration Lakeview vision.

Assembly Plant Demolition

Environmental Lead and QP$_{ESA}$ |
Ford | St.Thomas, Ontario | 2014 - 2016

Warren acted as the lead environmental site assessor and QPESA for the completion of Phase One and Two ESAs at the Ford St. Thomas facility. Obtained Record of Site Condition (RSC) for one portion of the Site, and supported GHD's Risk Assessment and Remediation teams in the assessment and remediation of the other portions of the Site.

Review of Excess Soil Management in Ontario

Team Member |
GHD | Ontario, Canada | 2015

Warren was a member of GHD's project team to complete a review of excess soil management in Ontario. Warren's role focused on identifying common practices, and best practices among contractors, municipalities, and government related agencies, to support the development of an improved process to manage excess soil in Ontario.

Risk Evaluation

Project Coordinator |
Confidential Client | Toronto | 2013 - 2014

Warren acted as project coordinator during a risk evaluation project, to support a potential property sale. His scope included coordinating access to an active facility, discussing the scope of work with potentially affected tenants, coordinating soil, groundwater, and indoor air monitoring activities, and reporting. The project team subsequently completed a risk evaluation, supported with Risk Management Measures developed by Warren and his team. The client was able to complete the transaction of the property, despite documented environmental liability concerns.

Risk Management Measure Implementation

Project Manager |
Confidential Client | Toronto, Ontario, Canada | 2010 - 2013

Project Manager for the oversight of Risk Management Measure (RMM) implementation, to comply with the requirements of a Certificate of Property Use. Activities completed by GHD included preparation of soil and groundwater management plan, preparation of Health and Safety Plan, dust monitoring, soil tracking, barrier construction inspection, and reporting. Warren acted as Project Manager and primary liaison for the client and their contractor, to ensure that the Certificate of Property Use requirements were understood and implemented.

Career history

2001 - present	GHD (formerly Conestoga Rovers & Associates), Toronto, ON, Engineer
2010	Named Associate
2017	Named Principal

Appendix B

Previous Environmental Reports

Phase One Environmental Site Assessment

600 March Road, Kanata (Ottawa), Ontario

Nokia Canada Inc.

April 20, 2022

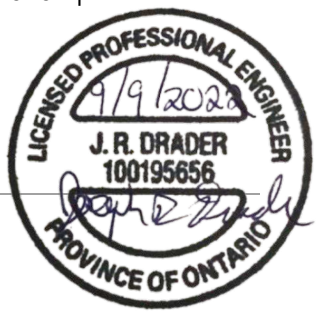
→ The Power of Commitment



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S4	02	Joseph Drader, P.Eng.	Kevin Emenau, P.Geo		Joseph Drader, P. Eng.		September 9, 2022

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1. Executive Summary

GHD Limited (GHD) was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase One Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 10.39 hectares (ha) (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 square metres [m^2] of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas. The Phase One Property is currently owned by Nokia and is used for office and research/development activities. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The Phase One ESA was conducted in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 – Record of Site Condition (O. Reg. 153/04), as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in O. Reg. 153/04.

It is GHD's understanding that Nokia intends to amend the zoning of the Phase One Property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 - RSC, as applicable.

The Phase One ESA was conducted by Mr. Joseph Drader and was reviewed by Mr. Kevin Emenau, both of GHD. Mr. Drader is Qualified Persons as defined with O. Reg. 153/04. The qualifications of Mr. Drader and Mr. Emenau are presented in **Appendix A**.

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site.

1. **Adjacent Manufacturing Operations |** Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.
2. **Surrounding Dry Cleaning Operations |** The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2**.
3. **Surrounding Historic Landfill |** The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 kilometres [km] from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3**.
4. **Surrounding Manufacturing Operations |** Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at

603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**

5. **Site Diesel Generator/Tank Operations |** Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is required to characterize soil and groundwater quality at the Phase One Property before a RSC can be filled with the MECP. The Phase Two ESA should evaluate the presence or absence of soil or groundwater impact to the Site from all identified APECs.

2. Introduction

2.1 Phase One ESA Property Information

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase One Property. A Site Location Map and a Site Plan are provided on **Figure 1** and **Figure 2**, respectively.

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas. The Phase One Property is currently used for office and research/development activities. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa. A legal survey of the Phase One Property is provided in **Appendix B**.

The Site contains five parcels with the following property identification numbers (PINs) and descriptions:

– 04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.
– 04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.
– 04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.
– 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
– 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

The Site is currently owned by Nokia Canada Inc. Contact information for the client representative is listed below:

Mr. Aaron Clodd, Director, Development Management Strategy & Consulting Group
Colliers
181 Bay Street, Suite 1400
Toronto, Ontario M5J 2V1

Phone: (905) 960-4506
Email: aaron.clodd@colliers.com

3. Scope of Investigation

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04, as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any PCAs and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in O. Reg. 153/04.

It is GHD's understanding that Nokia intends to amend the zoning of the Phase One Property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 - RSC, as applicable.

The following tasks were conducted as part of the Phase One ESA:

- Review of an electronic environmental database search of federal, provincial, and private source databases.
- Review of Phase One Property title records.
- Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, regional geological information, and previous environmental reports.
- Review of past and current Phase One Property usage and adjacent property occupancy.
- Examination of the facilities, equipment, utility services, operations, and associated records for the Site.
- Observations of any conditions that represented potential environmental concerns.
- Review of chemical use and storage, and spill/release incidents.
- Review of aboveground and underground storage tank records.
- Review of waste handling, accumulation, storage, and disposal practices.
- Review of air emissions and wastewater discharges.
- Review of equipment that potentially contains chlorofluorocarbons.
- Review of equipment that potentially contains polychlorinated biphenyls.
- Observations of potential lead-based paint.
- Observations of potential asbestos-containing materials.
- Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs and APECs associated with the Site. PCAs and APECs are defined in O. Reg. 153/04. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows.

3.1 Limitations

This report has been prepared by GHD for Nokia and Colliers, and may only be used and relied on by Nokia and Colliers for the purpose agreed between GHD and Client (Nokia).

GHD otherwise disclaims responsibility to any person other than the Client arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

4. Records Review

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Study Area included all properties located wholly or partially within 250 metres (m) of the boundary of the Site, as required by O. Reg. 153/04. This area has been determined by GHD to be a sufficient study area since PCAs and/or APECs located beyond 250 m from the Site will not likely adversely impact the Property.

The adjacent and surrounding properties within the Phase One Study Area were visually inspected from the Site and/or nearby streets, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the surrounding properties within the Phase One Study Area that were visible from applicable streets.

Along with various residential, commercial, and vacant properties located within the Phase One Study Area, a couple business park areas (known as the Kanata Research Park and Kanata North Technology Park) were identified. Although various potential technology and/or research manufacturing may be conducted on the interior of these buildings/properties, the exterior of many of the buildings/properties appeared to be operated solely as offices with no apparent manufacturing being conducted based on GHD's visual inspection, unless as noted below. Details from the other Records Review documentation may identify actual/potential PCAs and/or APECs at these properties based on operations/details provided in those sections.

Information regarding adjacent/surrounding properties within the Phase One Study Area are noted below:

North

The Site is bound to the north by Terry Fox Drive, beyond which are the following properties:

– Wooded area (north) and strip mall property (northeast) at 700 March Road with offices (Scotia Bank, dental, optometry, and physio), stores (convenience market, barber, video games, and cleaners [no dry cleaning observed]) and restaurants (Burger King, Subway, Chinese Food, Barley Mow) to the north.
– Residential development to the north (off McKinley Drive) and to the northwest beyond intersection of March Road and Terry Fox Drive.
– Beyond the commercial property to the north is a vacant, wooded property, followed by a Shell gas station with car wash building at 720 March Road.
– Beyond wooded area to the northeast are office buildings at 360 and 362 Terry Fox Drive (Artaflex [integrated electronics services] and B.J. Kane Electric Ltd [commercial and industrial electrical services], respectively).

West

The Site is bound to the west by March Road, beyond which are the following properties (north to south):

– Office buildings at 603 March Road and 375 Terry Fox Drive (Renesas [microcontrollers, analog and power devices] and TalentLab [IT Recruiters]).
– Vacant, wooded property.
– Commercial strip mall property at 591 March Road; includes following businesses: insurance, veterinary hospital, restaurants, pet grooming and supplies, spa.
– Power Muscle & Fitness (Gym) property at 555 March Road.
– Commercial property (insurance company and medicine wellness centre) at 525 March Road.
– Office building at 88 Hines Road (Telemus [electric warfare systems] and CCI Antennas [wireless equipment]).
– Office buildings at 80 and 84 Hines Road (multiple businesses at both buildings).
– Royal Canadian Legion at 70 Hines Road.
– Office buildings at 505 March Road and 50 Hines Road (multiple businesses at both buildings).

South

The Site is bound to the south by the following properties:

– Office and possible manufacturing (Sanmina Corporation – Optical, RF/Microwave products) property at 500 March Road (adjacent).
– Vacant, wooded property with evidence of a creek running through it at 490 March Road.
– Office building at 3001 Solandt Road (flex [electronics services]).
– Office building at 40 Hines Road (Trend Micro [cybersecurity]; across March Road to the southwest).
– Office building at 495 March Road (multiple businesses; across March Road to the southwest).

East

The Site is bound to the east by Legget Drive, beyond which are the following properties (south to north):

– Office building at 425 Legget Drive (Innovapost, Avaya, Renaissance).
– Office building at 515 Legget Drive (multiple businesses).
– Brookstreet Hotel and Conference Center at 525 Legget Drive, beyond which is a golf course and stormwater ponds.
– Office building at 535 Legget Drive (multiple businesses).
– Office buildings at 555 Legget Drive (multiple businesses).
– Office building at 359 Terry Fox Drive (multiple businesses).

Based on GHD's observations during the Site inspection, the following PCAs and/or APECs were identified within the Phase One Study Area:

– The operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.
– GHD observed a Shell gas station at 720 March Road within the Phase One ESA Study Area to the north of the Site (approximately 225 m distance). The operation of gas station is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

4.1.2 First Developed Use Determination

Based on GHD's review of historical documents and information gathered from Site interviews, the Site was vacant and/used for agricultural purposes between 1930 and 1987. Construction of office buildings on the Site started around 1987, with additional buildings constructed up through 1997. Office and research/development operations have been conducted since 1987.

4.1.3 Fire Insurance Plans

Fire insurance plans assist in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements, and facility operations. No coverage for the Site and adjacent lands were found on existing fire insurance plans.

4.1.4 Chain of Title

GHD was provided chain of title search documentation for the Phase One Property from Colliers. A copy of the title search is provided in **Appendix C**.

Title search documents go back to 1988 which is an acceptable time period based on review of aerial photographs (refer to Section 4.3.1) and the Phase One Property having not been developed as of 1985. The results of the title search and deviations in ownership of the Site are summarized below.

	Year	Property Ownership
04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.		
	February 1988 to November 1988	Notice Agreements identified: – Regional Municipality of Ottawa-Carleton – Corporation of the City of Kanata – Kanata Hydro-Electric Commission
	November 1988 to October 2002	Newbridge Networks Corporation Additional Notice Agreements and Easements identified during this period: – Corporation of the City of Kanata – Kanata Hydro-Electric Commission (Easement) – Regional Municipality of Ottawa-Carleton – Kanata Research Park Corporation
	October 2002 to April 2013	Alcatel Canada Inc. Lease identified for Rogers Wireless Inc./Rogers Communication Inc.
	April 2013 to January 2022 (date of search)	Alcatel-Lucent Canada Inc.
04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.		
	April 1989 to March 2003	Newbridge Research Corporation (later Newbridge Networks Corporation as of September 1996 Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Regional Municipality of Ottawa-Carleton – Kanata Research Park Corporation Leases identified for Clearnet PCS Inc., Bell Mobility Inc., TM Mobile Inc, Telus Communications Inc.
	March 2003 to January 2022 (date of search)	Alcatel Canada Inc.

	Year	Property Ownership
04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.		
	February 1988 to April 1989	Notice Agreements identified: – Regional Municipality of Ottawa-Carleton – Corporation of the City of Kanata – Kanata Hydro-Electric Commission
	April 1989 to January 2022 (date of search)	Newbridge Research Corporation (later Newbridge Networks Corporation)
04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.		
	November 1994 to January 2022 (date of search)	Newbridge Networks Corporation Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Kanata Research Park Corporation
04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.		
	May 1996 to January 2022 (date of search)	Newbridge Networks Corporation (transfer from Minto Developments Inc.) Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Kanata Research Park Corporation

No PCAs or APECs were identified based on available chain of title information.

4.1.5 Historical City Directories

Historical city directories generally document the occupants of municipal addresses on a yearly basis. Typically, GHD would review historical city directories for the Phase One Study Area (250 m radius) at the National Archives of Canada in Ottawa, Ontario; however, the National Archives were closed at the date of this Phase One ESA report. Therefore, GHD did not complete its own city directory search, which represents a potential data gap in the historical documentation review.

GHD did contract Environmental Risk Information Services Ltd. (ERIS) to conduct a search of available city directory information in their databases. The limited ERIS City Directory report (due to "information inaccessible") is included in **Appendix D**. A summary of the available Phase One ESA Study Area addresses and businesses listed as provided by ERIS is noted below:

– 600 March Road (Site) was listed as Alcatel-Lucent in 2011, Alcatel Networks in 2001/02, and Newbridge Networks in 1996/1997 and 1992. Not listed in 2005/06.
– 555 March Road (west, across March Road) | Goodlife Fitness in 2011.
– 591 March Road (west, across March Road) | Royal Lepage (2011, 2005/06, 2001/02, 1996/97), Wine Craft (2011, 2001/02, 1996/97), Vet Hospital (2011, 2001/02, 1996/97, 1992), Bombay Masala (2011), Co-Operators (2011), Island Tanning (2001/02), Ashoka Indian Cuisine (2001/02), Appliance Experts (1996/97, 1992), Market Place (1996/97), Marchview Dry Cleaners (1996/97), Technology Brokers (1992), Bytes Donuts (1992).
– 603 March Road (west, across March Road) | Blair Networks in 2011. Not listed in 2005/06. Tundra Semi Conductor in 2001/02. Newbridge Networks in 1996/97 and 1992.
– 70 Hines Road (west, across March Road) | Canadian Legion in 2011 and 2005/06. PCL Constructors in 2001/02).
– 84 Hines Road (west, across March Road) | Certicom Corp (2011 and 2005/06), Irdeto Canada (2011), Sidense Corp (2011), Ashton Electronic Systems (2011), Arrow Electronics (2011), Psion Teklogix (2011), Metconnex Inc (2005/06), Colonnade Developments (2005/06), Taral Networks (2005/06), Telewatch Monitoring (2005/06), Cloakware Corp (2005/06), Sitecast Construction (2001/02).

– 88 Hines Road (west, across March Road) | Flexus Electronics (2011, 2005/06, 2001/02), Wescar Corp (2005/06), Telemus Inc. (2005/06, 2001/02), Arrow Electronics (2001/02).
– 95 Hines Road (west, across March Road and Hines Road) | Wescar Corp (2011, 2005/06, 2001/02, 1996/97), Value Added Solutions (2005/06, 2001/02), Omega Telemus (1996/97), I-Stat Canada (1996/1997).

Based on review of above city directory entries, the following PCAs and/or APECs were identified within the Phase One ESA Study Area:

– The operation of a dry cleaners at 591 March Road (Marchview Dry Cleaners; 1996/97 directory) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2.**

4.1.6 Environmental Reports

No previous environmental reports of the Phase One Property were available or provided to GHD.

GHD did review the report titled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" by Interra Technologies Ltd, dated July 1988, which provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa as of July 1988. Based on GHD's review, there is no coverage of the Site provided in this report.

4.2 Environmental Source Information

4.2.1 Regulatory Review

No concerns, complaints, notices of violation, or directives of an environmental nature issued against the Site by federal, provincial, or municipal environmental regulatory agencies have been disclosed to GHD.

Ministry of Environment, Conservation and Parks (MECP)

GHD submitted a request to the Ministry of Environment, Conservation and Parks (MECP) under the Freedom of Information (FOI) and Protection of Privacy Act relating to the Site. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. A response from the MECP was received on September 7, 2022, with a copy of the MECP Record Release Letter included in **Appendix E**. The letter included the following documents:

– Waste Generator information for Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812; see Section 4.2.2 for additional waste class information).
– May 18, 2001 MECP Occurrence Report regarding MECP inspection to determine Alcatel's compliance with Regulation 347. It was reported that Alcatel stored subject wastes for more than 90 days without filing a waste storage report form as required. On June 22, 2001, MECP received the waste storage report form, and no further action required.
– July 12, 2001 MECP Occurrence Report to issue emergency manifest number for waste class #263A (waste poisonous solids nos "2 cyclohexyl-4, 6-dinitrophenol).
– August 14, 2001 MECP Occurrence Report to issue emergency manifest number for waste class #265L (liquid industrial waste "glue).

No PCAs or APECs were identified based on information provided in MECP documents.

City of Ottawa

A request was submitted to the City of Ottawa under the Historic Land Use Inventory (HLUI) database search relating to the Site and Phase One Study Area. A response from the City of Ottawa was received on February 24, 2022, with a

copy of the HLUI response included in **Appendix E**. The following PCAs and/or APECs were identified by GHD associated with the Site and Phase One Study Area:

Site

– Due to previous "Design and Manufacture of Digital Communication Products" comment under former Newbridge Networks Corp at the Site, these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings, therefore these operations were not identified as having the potential to contribute to an APEC at the Site.

North

– Due to previous "Design and manufacture blast mate seismographs and watch mate wandering patient systems" comment under Instantel Inc located northeast of the Site at 362 Terry Fox Drive (approximately 125 m distance), these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– The "Semiconductors & Related Dives (Mfrs)" and "Electronic Equipment & Supplies-Mfrs" operations of API Filtran, API Technologies Corp, and ARTAFlex Inc. located northeast of the Site at 360 Terry Fox Drive (approximately 150 m distance) are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– The operation of a gasoline service station (Shell Canada Products) at 720 March Road located to the north of the Site (approximately 225 m distance) is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

West

– The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3.**

– The operation of dry cleaners at 591 March Road (Hillary's Dry Cleaners and Miller's Quality Dry Cleaners) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2.**

– The "Semiconductors & Related Devices (Mfrs)" operations of XILINX Inc located west of the Site at 50 Hines Road (approximately 150 m distance) is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely and these operations were not identified as having the potential to contribute to an APEC at the Site.

South

– The "Electronic Equipment & Supplies-Mfrs" operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.

Technical Standards and Safety Authority (TSSA)

A request was submitted by GHD to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of storage tanks at the Site and select properties within the Phase One Study Area. An email response was received from the TSSA on January 6 and 7, 2022, indicating that there were no records in their database indicating fuel storage tanks are at the Site or at subject addresses. A copy of the TSSA response is included in **Appendix E**.

4.2.2 Environmental Database Search

GHD contracted Environmental Risk Information Services Ltd. (ERIS) to conduct a search of available federal, provincial, and private environmental databases within the Phase One Study Area. Based on the location of the Site, the database searches were completed to assist in the identification of environmental conditions at the Site and on adjacent/surrounding properties. The complete database search report, which also identifies limitations associated with this information, is included in **Appendix F**.

Site

The Site was identified in the ERIS report to contain the following records:

– Scott's Manufacturing Directory (SCT) | Newbridge Network Corporation, Alcatel Canada, and Alcatel-Lucent Canada Inc. were identified with the following operations:
  - Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
  - Semiconductor and Other Electronic Component Manufacturing
  - Electronic Components, Not Elsewhere Classified
  - Computer and Peripheral Equipment Manufacturing
  - Telephone Apparatus Manufacturing
– O. Reg. 347 Waste Generators Summary (GEN): Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812 between 2000 and 2021) were identified as operating under the following waste classifications:
  - 112 – Acid Waste – Heavy Metals
  - 121 – Alkaline Wastes – Heavy Metals
  - 122 – Alkaline Wastes – Other Metals
  - 145 – Paint/Pigment/Coating Residues
  - 146 – Other Specified Inorganics
  - 148 – Inorganic Laboratory Chemicals
  - 212 – Aliphatic Solvents
  - 213 – Petroleum Distallates
  - 242 – Halogenated Pesticides
  - 252 – Waste Oils & Lubricants
  - 263 – Organic Laboratory Chemicals
  - 331 – Waste Compressed Gases

Due to above noted records, the Site operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) and only limited quantities of chemicals and waste were stored in secure/contained portions of the Site buildings, therefore these operations were not identified as having the potential to contribute to an APEC at the Site.

Surrounding Properties

A summary of the pertinent findings from the ERIS database search for the surrounding properties within the Phase One Study Area is provided below.

– Sanmina Corporation on the adjacent property to the south at 500 March Road was identified in the GEN database, with operations noted as "semiconductor and other electronic component manufacturing", and Waste Generator No. ON5466737 (2016-2021) for various waste streams. In addition, two EASR records for SCI Brockville Corp at 528 March Road (same adjacent property as 500 March Road) identified a Standby Power System registered as of 8/25/2015 (fuel source not identified). The Sanmina operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.

– Miller's Quality Dry Cleaners at 591 March Road located west of the Site (across March Road) was identified in the GEN database with Waste Generator No. ON2095500 (1995-2001) for Waste Class 241 (halogenated solvents). These dry cleaning operations are identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2.**

– Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**

– Volex Capulum Inc/Volex Canada Inc, Sciemetric Instruments Inc, Filtran Limited, Emcon Emanation Control Ltd. at 360 Terry Fox Drive located northeast of the Site (approximately 150 m distance) were identified in the SCT and GEN databases with operations noted as "Semiconductors & Other Electronic Component Manufacturing", as well as other machinery, computer, device, wire/cable, and/or component manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– The operation of a gasoline service station (multiple names listed including Shell and Suncor) at 720 March Road located to the north of the Site (approximately 225 m distance) was listed in the FST, FSTH, SPL, CA, ECA, and DTNK databases, and is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– Excalibur Systems, DRS EW & Network Systems, and OneChip Photonics at 50 Hines Road located west of the Site (approximately 150 m distance) was identified in the SCT database with operations noted as "Semiconductors & Other Electronic Component Manufacturing" and/or other machinery and instruments manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Sidense Corp at 84 Hines Road located west of the Site (approximately 150 m distance) was identified in the SCT database with operations noted as "Semiconductors & Other Electronic Component Manufacturing". In addition, Telewatch Monitoring Services was identified with operations noted as "Computer and Peripheral Equipment Manufacturing". These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Flexus Electronics. Telemus Inc., 954050 Ontario Inc., and Ultra Electronics at 88 Hines Drive located west of the Site (approximately 150 m distance) were identified in the SCT and/or GEN databases with operations noted as

"Semiconductors & Other Electronic Component Manufacturing", as well as other machinery and/or instrument manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Elcombe Systems Limited, Smart Technologies Inc., Sciemetric Instruments Inc., and Pleora Technologies Inc. at 359 Terry Fox Drive located east of the Site (approximately 150 m distance) were identified in the SCT and/or GEN database with operations noted as manufacturing of communication equipment, computer, semiconductor, device and/or other electrical component manufacturing. In addition, Newbridge Networks Corporation was listed as having Certificates of Approval (CA) for industrial air activities, as well as listed under the GEN database for various waste solvents. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- C-MAC Electronic System at 425 Legget Drive located southeast of the Site (approximately 125 m distance) was identified in the GEN database with operations noted as "Computer & Peripheral Equipment Mfg", as well as listed as handling various waste solvents, chemical, and oils. Solectron EMS Canada was identified in the SCT database with operations noted as "Semiconductor and Other Electronic Component Manufacturing". These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- Lockheed Canada Inc. and Lockheed Martin Canada Inc. at 3001 Solandt Road located south of the Site (approximately 150 m distance) were identified in the CA and ECA databases with approved/cancelled industrial air permits for paint spray booths and ovens. Under the SCT database Lockheed Martin Canada Inc. was listed with operations noted as "Semiconductor and Other Electronic Component Manufacturing" and other instrument manufacturing, as well as listed with "Aerospace Product and Parts Manufacturing" operations and having various waste solvent, paints, chemicals, and oils under the GEN database. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- A standby emergency diesel generator at 495 March Road located south of the Site (approximately 200 m distance) was listed in the CA database and is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site this operation was not identified as having the potential to contribute to an APEC at the Site.
- A spill of 30 litres of engine oil was reported in the SPL database at the intersection of Terry Fox and March Road (adjacent to the northwest of the Site) on September 1, 2010. Based on the quantity of spilled oil, it is unlikely this release will have adversely affected the Site.
- A spill of unknown quantity of diesel fuel was reported in the SPL and HINC databases at 515 Legget Drive (east of the Site, across Legget Drive) on November 13, 2008. The reason for the spill was unknown, but was cleaned with environmental impact not anticipated. It is unlikely this release will have adversely affected the Site.
- A spill of 150-250 litres of diesel fuel was reported in the SPL database at 70 Hines Road (Legion Branch 638; west of the Site, across March Road) on August 21, 2019. Rogers Communications was listed as client, with diesel released to ground due to cracked line (material failure – poor design/substandard material). Although clean-up not explicitly mentioned, it is unlikely this release will have adversely affected the Site.

4.3 Physical Setting

4.3.1 Aerial Photographs

Aerial photographs were reviewed to generally document the development of the Site and properties in the vicinity of the Site, and to identify the existence of any significant areas of actual or potential environmental concern at the Site. Aerial photographs of the Site and surrounding area reviewed by GHD included the years 1934, 1945, 1952, 1960, 1976, 1985, 1991, 1999, 2009, and 2019 (source: National Air Photo Library (NAPL); City of Ottawa geoOttawa website). Aerial photographs are provided in **Appendix G**.

Based on the history of the Site and the quantity and quality of the aerial imagery available for review, the selected time period between aerial photographs was determined to be suitable for the purposes of this Phase One ESA.

Year	Site	Neighbouring Properties
1930	The Site appears to be vacant (no buildings) or used for agricultural purposes.	March Road is located west of the Site. Neighbouring properties appear to either be vacant (no buildings) or used for agricultural purposes or occupied by residential dwellings.
1945, 1952, 1960, 1976, 1985	No significant changes in land use had occurred since 1930. Some surface disturbances were noted initially in 1976 photo (unknown purpose and unchanged as of 1985 photo).	No significant changes had occurred on the neighbouring properties since 1930, with the exception of the following: – New residential structure observed as of 1952 on adjacent property to the west (center). – Trails and new structure(s) observed in wooded area as of 1960 on adjacent property to the west (south). – New commercial structure observed as of 1976 on adjacent property to the west (north); expanded structure and parking areas observed on 1985 photo. – Hines Road to the west observed as of 1985 photo.
1991	New building structures (existing office buildings), driveways, and parking lots have been constructed on the northern half of the Site. Southern portion remains vacant.	Significant changes at neighboring properties have occurred as follows: – Terry Fox Drive (north) has been constructed, and Legget Drive (east) and McKinley Drive (north) are being constructed. – Two new commercial buildings with parking lots constructed to the northeast of the Site (one north and one south of Terry Fox Drive). – One new commercial building and parking lots constructed to the south of the Site. – Four new commercial buildings with parking lots constructed to the west of the Site across March Road. – A new housing development constructed to the northwest of the Site across intersection of March Road and Terry Fox Drive.
1999	New building structures (existing office buildings) have been constructed where 1991 parking lots were observed in the northern half of the Site, with additional driveways and parking observed. Large parking lots have been constructed on the southern half of the Site.	Significant changes at neighboring properties have occurred as follows: – New commercial buildings and parking have been constructed to the north of the Site across Terry Fox drive, as well as new residential development on east side of McKinley Drive. – A new commercial building with parking lots constructed to the northeast of the Site (north of Terry Fox Drive). – Two new office towers (linked by lower level building) with parking lots, as well signs of further construction, were observed to the east of the Site (across Legget Drive). – One new commercial building with parking lots constructed to the southeast of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed to the west of the Site across March Road.

Year	Site	Neighbouring Properties
2009	No significant changes have occurred with the property land use since 1999.	Significant changes at neighboring properties have occurred as follows: – Two new office towers, the Brookstreet Hotel with golf course and parking structure, and associated parking lots have been constructed to the east of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed west and southwest of the Site (across March Road). – A gas station has been constructed north of the Site along March Road.
2019	No significant changes have occurred with the property land use since 2009.	Significant changes at neighboring properties have occurred as follows: – One new commercial structure with parking lots constructed on the adjacent property to the east.

Based on GHD's review of the aerial photographs, the following PCAs and/or APECs were identified:

– The operation of a gasoline station along March Road located to the north of the Site (approximately 225 m distance) is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, this operation was not identified as having the potential to contribute to an APEC at the Site.

No other PCAs or APECs were identified based on review of the aerial photographs.

4.3.2 Topography, Hydrology, and Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry. The mapping shows the topography at the Site and in the Phase One Study Area as relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. The Ottawa River is located approximately 3.2 km northeast from the Site limits. Generally, stormwater in the Phase One Study Area is anticipated to drain to municipal catch basins and by infiltration.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022; currently Draft), a Site investigation was carried out between January 28 and February 6, 2022 to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Ten boreholes were advanced at the Site to auger refusal and/or into bedrock, with four monitoring wells installed/sealed in bedrock and one monitoring well installed in the overburden soil. A summary of applicable subsurface conditions is noted below:

– Topsoil (organic material with rootlets), and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.9 metres below ground surface (mBGS). Silty clay to clay deposit was encountered below topsoil or subbase material.
– Auger refusal (presumed bedrock) was encountered at depths ranging from 0.4 to 3.6 mBGS in all boreholes.
– Groundwater was not encountered in the overburden stratigraphy.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 metres above mean sea level (mAMSL) on February 9, 2022. The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook (actual direction could not be confirmed based on well locations and dry well conditions). It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.

4.3.3 Fill Materials

Based on review of aerial photographs, observations made by GHD during the Site inspection, and subsurface conditions documented in the 2022 GHD Geotechnical and Hydrogeological Investigation Report (refer to Section 4.3.2), fill material at the Phase One Property is limited to granular material associated with the construction of the Site buildings and parking lot.

4.3.4 Water Bodies and Areas of Natural Significance

There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The closest significant surface water body is the Ottawa River located approximately 3.2 km northeast of the Site.

In accordance with O. Reg. 153/04, an "area of natural significance" is defined as any of the following:

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance.
3. A wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species.
7. An area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A summary of GHD's review is provided below:

1. The Site is not an area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. The Site is not considered to be an area of natural and scientific interest (life science or earth science) as identified by the Ministry of Natural Resources as having provincial significance.
3. The Site is not a wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. The Site is not designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. The Site is not an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. The Site is not an area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species. GHD conducted a search to determine if threatened or endangered species are present within or adjacent to the Site. According to the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), Species at Risk in Ontario (SARO), and the Ontario Ministry of Natural Resources and Forestry (MNRF), no species were listed as threatened and/or endangered within the Phase One Study Area.
7. The Site is not an area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. The Site is not located within an area designated as part of the Oak Ridges Moraine natural core area or natural linkage area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.

9. The Site is not an area set apart as a wilderness area under the Wilderness Areas Act.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

4.3.5 Well Records

A search of the MECP Water Well Information System database was conducted as a component of the ERIS database search outlined in Section 4.2.2. No monitoring wells were registered on the Site. Eight wells were registered in the surrounding properties including:

– Four domestic water supply well and one industrial supply well installed to the west of the Site (across March Road) between 1952 and 1969.
– One test hole installed to the south of the Site (across March Road) in 2010.
– One test hole installed to the west of the Site (across March Road) in 2014.
– One domestic water supply well installed to the south of the Site (3001 Solandt) in 2017.

The Phase One Property is currently located in an area municipally serviced with potable water. The current status of these wells is unknown.

4.3.6 Site Operating Records

No Site operating records were not provided to GHD as part of the Phase One ESA.

5. Interviews

As part of the Phase One ESA site inspection, GHD interviewed Mr. Wayne Carroll (Building Operations Manager) on January 27, 2022 (Site Representative). Mr. Carroll has been familiar with the Site and associated Site operations for approximately 30 years.

The interview completed with the Site Representative was focused on the historical and current use of the Phase One Property, and the topics listed in Sections 13 and 14 of Schedule D of O. Reg. 153/04. Relevant information provided to GHD by those interviewed has been summarized in applicable sections of Section 6 – Site Reconnaissance.

6. Site Reconnaissance

6.1 General Requirements

On January 27, 2022, Mr. Joseph Drader of GHD conducted a Site reconnaissance visit of the Phase One Property between 9:00 a.m. and 2:00 p.m. Weather conditions were overcast with an approximate temperature of -20 to -10°C. The Site ground surfaces were covered in snow at the time of Site visit which prevented direct observation of the ground surface.

GHD was accompanied by Mr. Wayne Carroll during the Site visit (refer to Section 5).

Photographs from the Site visit are included in **Appendix H**.

6.2 Specific Observations at Phase One Property

6.2.1 Property and Building

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 10.39 ha (25.67 acres) in size and is irregular in shape. The Site is currently occupied with multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space) on the northern portion of the Site, and ground-level car parking (approximately 1,900 surface parking stalls) on the southern portion of the Site, along with access roads, other smaller parking lot areas, basketball court, and landscaped areas.

Details regarding each building on the Phase One Property is provided below:

– Corporate Building | constructed in 1987 with renovations/additions in 1996; three stories with small basement area.
– Tower 1 Building | constructed in 1989-91; six stories.
– Link 1 Building and Main Lobby Building | constructed in 1994; three stories.
– Tower 2 Building | constructed in 1994; six stories with basement garage level.
– Link 2 Building | constructed in 1997; three stories.
– Tower 3 Building | constructed in 1997; ten stories.
– Hydro Vault and Diesel Generator buildings in the northeast portion of the Property (one story).

The buildings are typically of concrete construction with brick and glass exterior façade. Interior finishes are typically constructed of carpet/tile/concrete flooring, drywall walls and ceilings, and drop acoustic ceiling tiles. The building foundations are typically on-grade concrete slabs, with basement foundations in Front Main Lobby.

6.2.2 Current Site Operations

The Phase One Property is currently used for office and research/development/testing (computer/server labs) activities. Other ancillary operations conducted at the Site include:

– Kitchens and cafeterias, including former Tim Hortons operations.
– Maintenance and loading areas.
– Penthouse roof structures for air handling equipment, elevator machine rooms, and other building operations.
– Three Hydro Ottawa transformer rooms/areas and various electrical rooms throughout the buildings.

Prior to the Nokia owning/operating the Phase One Property, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent.

6.2.3 Historical Site Operations

Based on a review of the historical records for the Site, the Site was historically vacant or utilized for agricultural purposes.

6.2.4 Utility Services

The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The buildings are heated by electric forced air, radiant, and baseboard heaters.

The Site is serviced with natural gas provided by Enbridge for humidification units, kitchen appliances, and water heaters.

The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catchbasins in parking lot and driveways, as well as from other surrounding properties.

The Site Representative was not aware of any historical utility and/or water services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

6.2.5 Underground Storage Tanks (USTs)

No underground storage tanks or evidence of previously existing USTs were observed by GHD at the time of the Site inspection. The Site Representative was not aware of any current or historic USTs.

6.2.6 Above Ground Storage Tanks (ASTs)

As indicated by the Site Representative and as observed by GHD during the Site inspection, the following ASTs were identified at the Site:

– Exterior 4,540 litre diesel tank located next to the generator outbuilding in the northeast portion of the Site. The AST is double-walled on concrete slab (no containment walls), but due to snow GHD could not make observations for signs of releases and/or surface staining. According to the Site Representative, this AST was installed in 2011 to replace a similar AST. The generator was to be initially fuelled with a flat tank located below the generator in the outbuilding, but was never reportedly used and the flat tank was left in place. GHD observed signs of drips/staining below the generator (on top of the flat tank) during the Site inspection.
– A 2,220 litre diesel tank located inside Hydro Vault and Generator building in the northeast portion of the Site. The AST is double-walled on concrete slab. No evidence of spills or releases was observed by GHD on or under the AST. According to the Site Representative, this AST was installed in approximately 2003 (manufactured date) to replace a smaller AST.
– A 935 litre diesel tank (ground floor) and 454 litre diesel day tank (penthouse next to generator) are located inside Tower 3. Both tanks are located in concrete secondary containment. No evidence of spills or releases was observed by GHD on or under the ASTs. According to the Site Representative, these ASTs were installed in 2011 to replace similar ASTs.

The Site Representative was not aware of any other current or historic ASTs, and were not aware of any spills/releases associated with current/historic ASTs or generators. No evidence of previous ASTs were observed by GHD during the Site inspection.

Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

6.2.7 Floor Drains, Pits, and Sumps

At the time of the Site inspection, GHD observed the following floor drains, pits, or sumps at the Site:

– Elevator sump/drain pits and ramp trench drains located in basement of Tower 2.
– Floor drains in Tower 3 loading area.
– Floor drains in some fire system rooms and next to hot water heaters.
– Floor drains in some bathrooms.

Based on GHD observations during the Site inspection, limited to no chemical storage is kept near the drains/sumps, and no evidence of staining was observed near the drains/sumps.

6.2.8 Wastewater/Sewers

According to the Site Representative and based on GHD's observations, wastewater generated at the Site discharges to the municipal sanitary sewer system.

6.2.9 Enhanced Investigation Property

In accordance with O. Reg. 153/04, Part VIII, Clause 32 (1) b, the Phase One Property is considered to be an Enhanced Investigation Property if it is currently used or has ever been used in whole or in part for industrial use, or commercial uses including a garage, a bulk liquid dispensing facility such as a gas station, or for the operation of dry cleaning equipment. Based on the current and historical use of the Site, the Site is not considered an Enhanced Property.

6.2.10 Asbestos-Containing Materials (ACM)

The presence of potential ACM at the Site was investigated during the Phase One ESA through discussions with the Site Representative and visual observations made by GHD. The Site Representative was not aware of any ACM surveys having been completed on any of the buildings to date since first constructed in 1987. Based on observation made by GHD, potential building materials that may contain asbestos include vinyl floor tiles, acoustic ceiling tiles, ceramic tile mastic, drywall compound, insulation material, roofing materials, and/or window/door caulking. Hidden building materials also have the potential to contain asbestos. Samples of potential ACM were not collected as part of this Phase One ESA, but are recommended prior to any demolition and/or renovation activities.

6.2.11 Polychlorinated Biphenyls (PCBs)

The presence of potential PCB-containing equipment at the Site was investigated during the Phase One ESA through discussions with the Site Representative and visual observations made by GHD. The Site Representative was not aware of any PCB-containing equipment or on-Site storage of PCBs or PCB wastes. GHD observed fluorescent lights throughout the Site buildings, but the light ballasts were not checked as part of the Phase One ESA to determine if they are PCB-containing. Transformers were also observed throughout the Site buildings, but were all dry-type transformers. No other evidence of on-Site PCBs or on-Site PCB waste storage was observed by GHD at the time of the Site inspection.

6.2.12 Solid Waste/Recyclable Materials

Based on discussions with the Site Representatives and GHD observations during the Site inspection, the following solid wastes or recyclables are currently generated at the Site:

– General Refuse and Recycled Materials (plastics, cardboard, etc.) | Bins are located in Corporate Building, Tower 2, and outside Tower 3 (refuse only); Tomlinson Environmental Services (Tomlinson) collects.
– Scrap metal and e-waste including but not limited to electronics, batteries, fluorescent bulbs | Bins located in Tower 2; EDI collects.
– Pallets | placed outside Tower 1; collected by employees or Tomlinson.

At the time of the Site inspection, no visual evidence of on-Site waste disposal was observed by GHD, and the Site Representative was not aware of any current or historic on-Site waste disposal activities.

6.2.13 Chemical and Raw Material use and Storage

Based on discussions with the Site Representative and GHD's visual observations during the Site inspection, chemicals used and stored at the Site are limited to the following:

– Ethlyene Glycol and/or Propylene Glycol (reservoir tanks, drums, and pails) used and stored near air handling equipment in penthouse and near inside server/testing rooms as part of exterior heat exchanger units.
– Isopropyl alcohol (small containers) for cleaning equipment in server/testing rooms.
– Paints (various sized containers, but less than 20 litres) in maintenance rooms or in areas being renovated.
– Various lubricants (small containers, less than 4 litres) located in maintenance areas and elevator machine rooms.
– General janitorial cleaners located in kitchens, bathrooms, and storage/maintenance areas.

No evidence of staining or spillage was observed by GHD at the location of the containers or at the Site.

6.2.14 Subject Waste/Hazardous Waste

Based on the findings of the ERIS database search outlined in Section 4.2.2, Alcatel Canada, and Nokia Canada (both listed under Generator No. ON0044812 between 2000 and 2021) were identified as operating under the following waste classifications at the Site:

– 112 – Acid Waste – Heavy Metals.
– 121 – Alkaline Wastes – Heavy Metals.
– 122 – Alkaline Wastes – Other Metals.
– 145 – Paint/Pigment/Coating Residues.
– 146 – Other Specified Inorganics.
– 148 – Inorganic Laboratory Chemicals.
– 212 – Aliphatic Solvents.
– 213 – Petroleum Distallates.
– 242 – Halogenated Pesticides.
– 252 – Waste Oils & Lubricants.
– 263 – Organic Laboratory Chemicals.
– 331 – Waste Compressed Gases.

According to the Site Representative and based on GHD's observation during the Site inspection, only limited subject waste is generated/stored in secure/contained portions of the Site buildings. Kitchen grease traps are cleaned quarterly and collected in an oil bin located in Corporate Building waste room. No other specific subject waste storage were observed during the Site inspection.

6.2.15 Chemical Spills/Releases

At the time of the Site inspection, GHD did not observe any visual evidence of chemical spills or releases at the Site. A review of the Ontario Spills database included in the ERIS report (refer to Section 4.2.2) did not identify any spills associated with the Site.

6.2.16 Lead-Based Paint

The amount of lead in interior and exterior paint has been regulated since 1976 through Health Canada's Hazardous Products Act. Based on the age of the buildings, it is unlikely that building materials were coated with lead-based paint; however, there is potential that older paint and/or building materials were used during construction. Samples of potential lead-based paint were not collected as part of this Phase One ESA, but are recommended prior to any demolition and/or renovation activities.

6.2.17 Chlorofluorocarbons

Based on observations made by GHD during the Site inspection, equipment potentially containing chlorofluorocarbons (CFCs) is limited to operation of air handling equipment for the building, and heat exchanger units for server/testing rooms.

6.2.18 Air Emissions

Based on GHD observations during Site inspection, air emission are limited to venting of diesel ASTs and natural gas appliances. The Site Representative was not aware of any other active air emission sources currently present at the Site.

6.2.19 Ionizing Radiation

According to the Site Representative and based on GHD observations during the Site inspection, no sources of ionizing radiation were observed by GHD at the Site.

6.3 Written Description of Investigation

The Phase One ESA included a records review, interviews with the Site Representative, a Site reconnaissance, and a review and evaluation of the information obtained during the Phase One ESA. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

The findings from the assessment carried out pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended, were previously discussed in Section 6.

7. Review and Evaluation of Information

7.1 Current and Past Uses (Site)

A summary of the current and past uses of the Site is provided below.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1930 to 1987	Unknown	Vacant (no buildings) or Agricultural	Vacant (no buildings) or Agricultural	Suspected to have been undeveloped and/or used for agricultural purposes (based on aerial photographs.
1987 to Present	Newbridge Networks Corporation (1987-2002) Alcatel Canada Inc. (2002-2013) Alcatel-Lucent Canada Inc. (2013-2016) Nokia Canada Inc. (2016-Present; Nokia acquires Alcatel-Lucent)	Office and Computer Labs	Commercial and/or Industrial	Based on a review of the 1991, 1999, 2009, and 2019 aerial photographs, the Site was developed with office buildings and a large parking lot.

7.2 Potentially Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153/04, under the Environmental Protection Act. The following PCAs have been identified to be on, in, or under the Phase One Property, or located within the Phase One Study Area *and* have the potential to contribute to an APEC.

Location and Description	Potentially Contaminating Activity (PCA)
Site – Exterior diesel AST and generator	#28 - Gasoline and Associated Products Storage in Fixed Tanks – APEC #5
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	#19 – Electronic and Computer Equipment Manufacturing – APEC #1
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	#37 – Operation of Dry Cleaning Equipment – APEC #2
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	#19 – Electronic and Computer Equipment Manufacturing – APEC #4
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners – APEC #3

The location of the above-noted PCAs on the Site and adjacent to the Site are shown on **Figure 3**. APEC #'s provided in above table are also shown on **Figure 3** and referenced in Section 7.3.

In addition to the above noted PCAs associated with Site and adjacent properties, the following PCAs were also identified within the Phase One Study Area, but based on review of available documents do not have the potential to contribute to an APEC, typically due to distance from the Site and/or groundwater flow direction.

Location and Description	Potentially Contaminating Activity (PCA)
Site – Newbridge Networks (former owners/operators)	#19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 125 m from Site)	#19 – Electronic and Computer Equipment Manufacturing

Location and Description	Potentially Contaminating Activity (PCA)
Northeast of Site – Various equipment-electronic manufacturers (API Filtran, API Technologies, ARTAFlex, Volex, SCI, Emcon Emanation) at 360 Terry Fox Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks
North of the Site – Shell Gas Station at 720 March Road (approx. 225 m from Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks

The location of the above-noted PCAs within the Phase One Study Area are shown on **Figure 3**.

7.3 Areas of Potential Environmental Concern

The following areas of actual or potential environmental concern have been identified by the Phase One ESA site reconnaissance and records review and are summarized in the table below. This table is used to list and describe each potentially contaminating activity at the Property and each potentially contaminating activity in the Phase One study area that may be contributing to an APEC at the Property.

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Adjacent Property to the South – Electronics manufacturing at 500 March Road	Southern Boundary of the Site	#19 – Electronic and Computer Equipment Manufacturing	Off-Site	Metal/Inorganics, VOCs, PAHs, and PHCs	Groundwater
APEC #2 – Property to the west (beyond March Road) – Dry Cleaners at 591 March Road	Northwest Boundary of the Site	#37 – Operation of Dry Cleaning Equipment	Off-Site	VOCs	Groundwater
APEC #3 – Property to the Northwest and West – Historic March Landfill with associated groundwater contamination plume	Northwest Boundary of the Site	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners	Off-Site	VOCs	Groundwater
APEC #4 – Property to the west (beyond March Road) – Electronics manufacturing at 603 March Road	Northwest Boundary of the Site	#19 – Electronic and Computer Equipment Manufacturing	Off-Site	Metal/Inorganics, VOCs, PAHs, and PHCs	Groundwater
APEC #5 – Site – Exterior diesel AST and generator	Site – Fenced-in area surrounding generator and AST	#28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs and BTEX	Soil and Groundwater

Notes:

1 Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through:
   (a) Identification of past or present uses on, in or under the Phase One property.
   (b) Identification of potentially contaminating activity.

2 Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area.

3 When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for Analytical Methods in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011.
   – PAHs: Polycyclic Aromatic Hydrocarbons
   – PHCs: Petroleum Hydrocarbon (Fractions F1-F4)
   – VOCs: Volatile Organic Compounds
   – BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Where GHD identified significant uncertainty, or a lack of information regarding the potential for a PCA to contribute to an APEC at the Site, GHD conservatively assumed that an APEC may be present, and included the APEC in this report.

7.4 Phase One Conceptual Site Model

The Phase One Property is located at 600 March Road in Kanata (Ottawa), Ontario, east of March Road, south of Terry Fox Drive, and west of Legget Drive. A Site Location Map and a Site Plan are provided on **Figure 1** and

Figure 2, respectively. The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa.

The Phase One Property is approximately 10.39 ha (25.67 acres) in size, and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas.

The Phase One Property is currently owned by Nokia Canada Inc. and is used for office and research/development activities. Prior to the Nokia owning/operating the Phase One Property, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The general topography at the Site and in the Phase One Study Area is relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022; currently Draft), a Site investigation was carried out between January 28 and February 6, 2022 to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Ten boreholes were advanced at the Site to auger refusal and/or into bedrock, with four monitoring wells installed/sealed in bedrock and one monitoring well installed in the overburden soil. A summary of applicable subsurface conditions is noted below:

– Topsoil (organic material with rootlets), and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.9 mBGS. Silty clay to clay deposit was encountered below topsoil or subbase material.
– Auger refusal (presumed bedrock) was encountered at depths ranging from 0.4 to 3.6 mBGS in all boreholes.
– Groundwater was not encountered in the overburden stratigraphy.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 mAMSL on February 9, 2022. The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook (actual direction could not be confirmed based on well locations and dry well conditions). It should be noted that the groundwater table elevation is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.

Based on the information reviewed and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered an area of natural significance.

The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The Site is serviced with natural gas provided by Enbridge for various building operations/appliances. The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

The Phase One ESA Conceptual Site Model, including the location of PCAs and APECs, is depicted on **Figure 3**. Based on the results of the Phase One ESA, the contaminants of concern were identified as metals/inorganics, PAHs, PHCs, VOCs, and/or BTEX.

8. Conclusions

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site.

1. **Adjacent Manufacturing Operations |** Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.
2. **Surrounding Dry Cleaning Operations |** The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2**.
3. **Surrounding Historic Landfill |** The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3**.
4. **Surrounding Manufacturing Operations |** Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**
5. **Site Diesel Generator/Tank Operations |** Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

8.1 Requirement for Phase Two ESA Before RSC Can Be Submitted

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is required to characterize soil and groundwater quality at the Phase One Property before a RSC can be filed with the MECP. The Phase Two ESA should evaluate the presence or absence of soil or groundwater impact to the Site from all identified APECs.

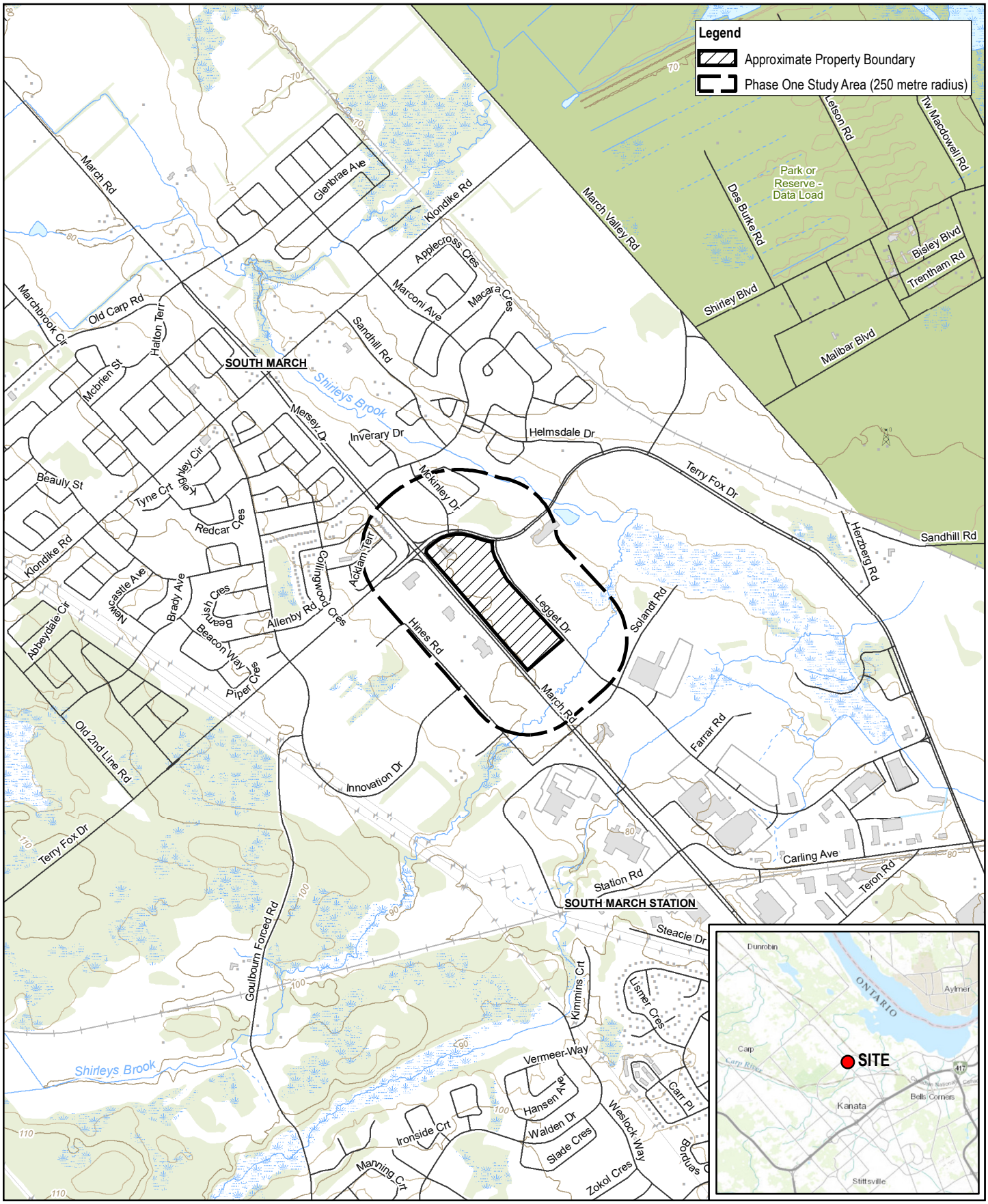
8.2 Signatures

Joseph Drader, Qualified Persons for Environmental Site Assessment under O. Reg. 153/04, confirms the carrying out of this Phase One ESA and the findings and conclusions of this report.

9. References

Ministry of Environment. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.

Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

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GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

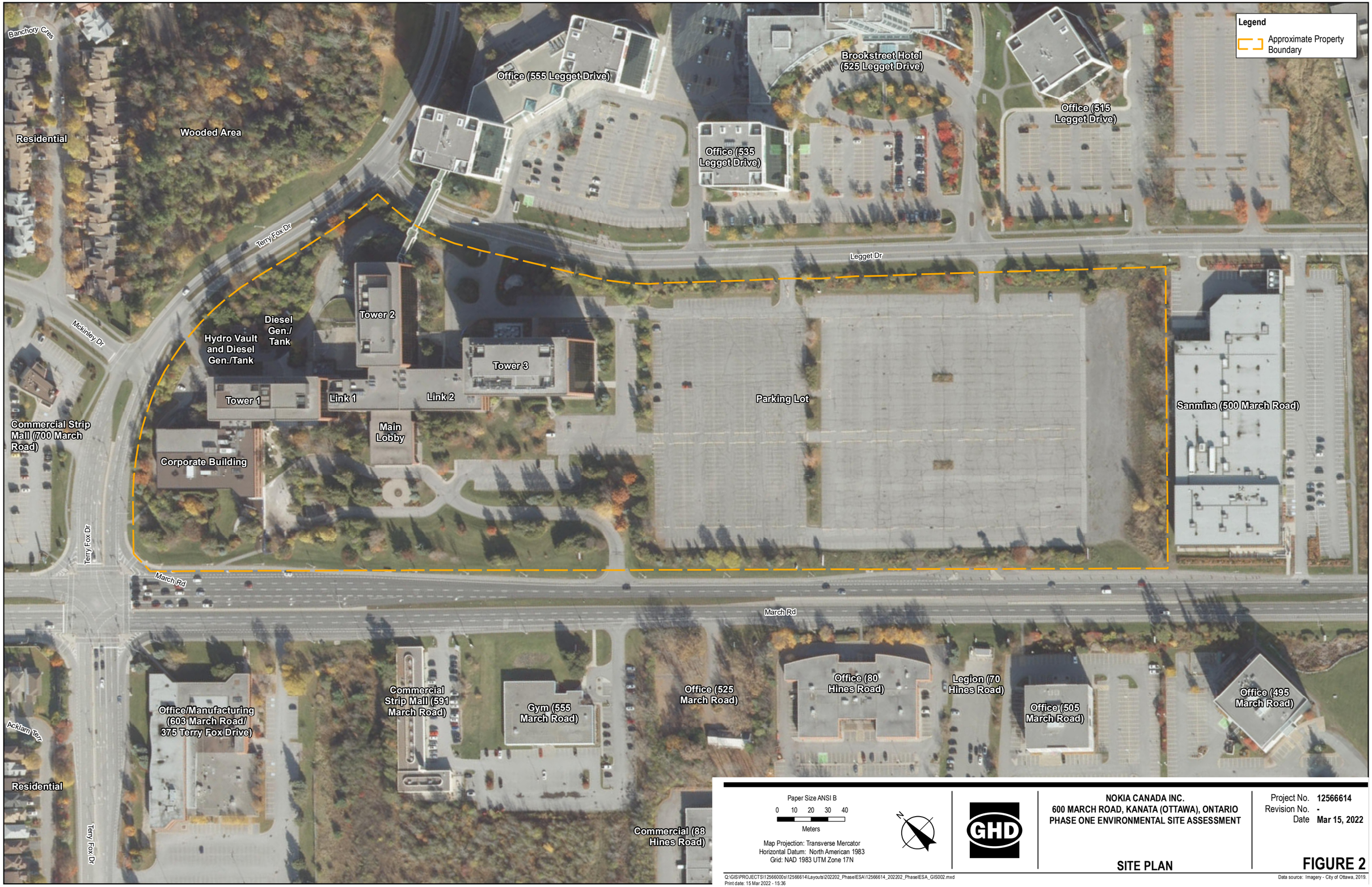
Project No. **12566614**
Revision No. **-**
Date **Mar 15, 2022**

SITE LOCATION MAP

FIGURE 1

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Print date: 15 Mar 2022 - 15:22

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2022.



Paper Size ANSI B

0 10 20 30 40

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

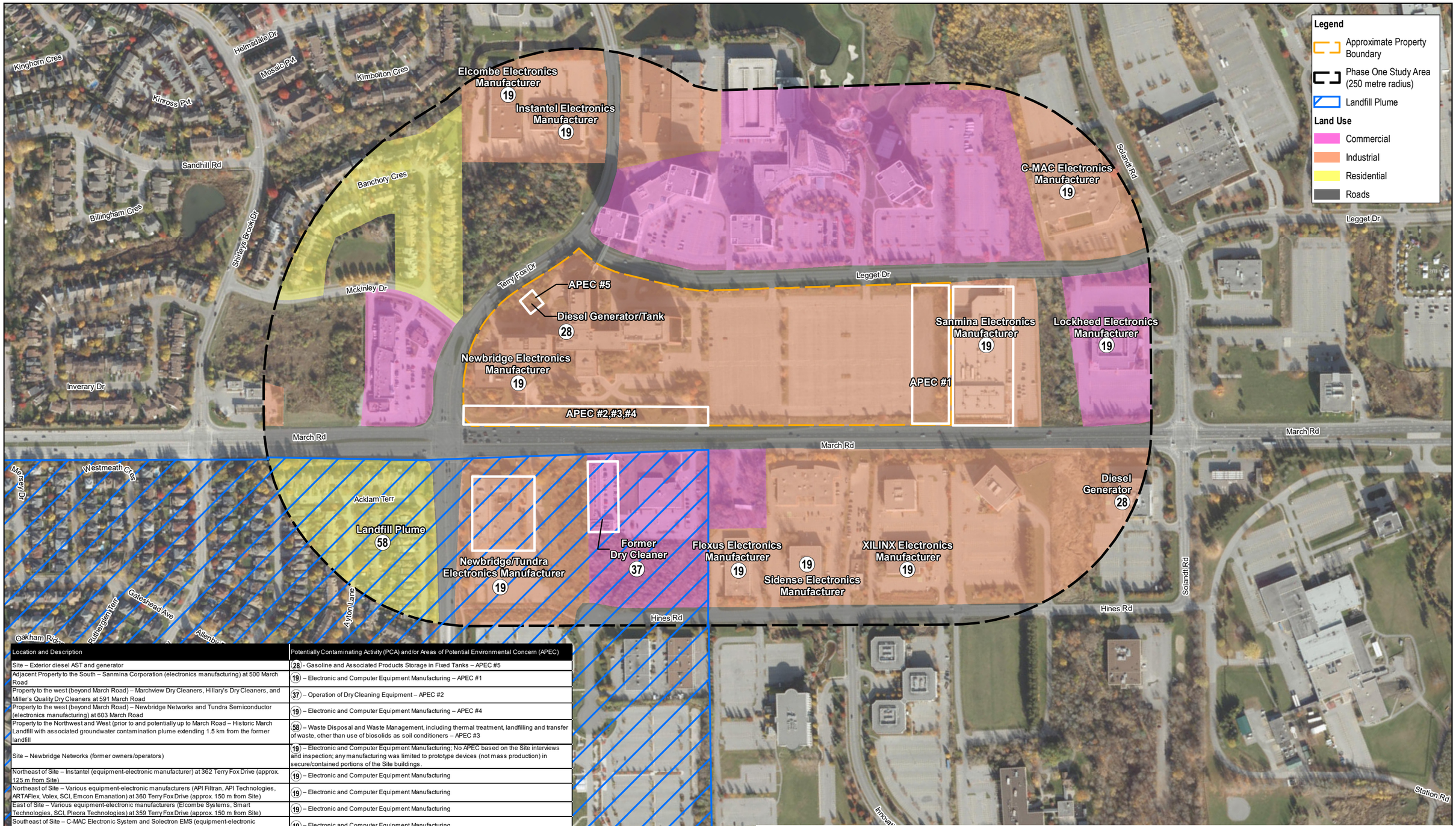
SITE PLAN

Project No. **12566614**
Revision No. **-**
Date **Mar 15, 2022**

FIGURE 2

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Print date: 15 Mar 2022 - 15:36

Data source: Imagery - City of Ottawa, 2019.



Location and Description	Potentially Contaminating Activity (PCA) and/or Areas of Potential Environmental Concern (APEC)
Site – Exterior diesel AST and generator	28 - Gasoline and Associated Products Storage in Fixed Tanks – APEC #5
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #1
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	37 – Operation of Dry Cleaning Equipment – APEC #2
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #4
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners – APEC #3
Site – Newbridge Networks (former owners/operators)	19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings.
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 125 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Northeast of Site – Various equipment-electronic manufacturers (API Filtran, API Technologies, ARTAFlex, Volex, SCI, Emcon Emanation) at 360 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks
North of the Site – Shell Gas Station at 720 March Road (approx. 225 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks

Paper Size ANSI B

0 30 60 90 120

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CONCEPTUAL SITE MODEL

Project No. **12566614**
Revision No. **-**
Date **Mar 17, 2022**

FIGURE 3

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Print date: 17 Mar 2022 - 09:41

Data source: Imagery - City of Ottawa, 2019.

Appendices

Appendix A

Curricula Vitae

Joseph Drader P. ENG., P.E.

Project Manager/Environmental Engineer



Location

Ottawa, Ontario, Canada

Experience

20+ years

Qualifications/Accreditations

– Bachelor of Science in Chemical Engineering, 2000

Key technical skills

– Contaminant Assessment and Remediation
– Decommissioning Closure & Rehabilitation
– Designated Substance Surveys
– Emergency Response Assessments

Memberships

– Professional Engineers of Ontario
– Ottawa Area Chapter of Association of Consulting Engineering Companies

Relevant experience summary

Joseph is a senior engineer with over 20 years of experience in environmental engineering. Joseph has experience in Phase I and II Environmental Site Assessments (governed by Canadian and United States regulations); emergency response assessments, remediation, and investigations; construction supervision/inspection and contract administration for UST removal projects, remediation projects, and landfill projects; designate substance surveys; coordination of various monitoring programs (groundwater, surface water, air); and other environmental compliance assessments (noise, air, sewer). Joseph has also been the Quality System representative for the Ottawa office for 6 years (2009 2015) and is a former member of the Office Joint Health and Safety Committee.

Project experience – Environmental Site Assessments

Phase I ESAs

Project Manager/Engineer |
Various | Ontario, Quebec, Manitoba, Saskatchewan, Northwest Territories, Canada and New York and Michigan, USA | 2005 - Present

Project Manager/Engineer for Phase I ESA inspections, research, and reporting in support of acquisition, divesture, due diligence, and regulatory requirements for over 90 industrial, commercial, municipal, and residential properties in Canada and USA. Other environmental compliance activities completed in conjunction with Phase I ESA include:

Phase II ESAs

Project Manager/Engineer |
Various | Ontario, Canada | 2005 - Present

Project Manager/Engineer for Phase II ESA programs and reporting in support of acquisition, divesture, due diligence, construction/redevelopment, and regulatory requirements for industrial, commercial, and residential properties including, but not limited to:

– Commercial/Vacant property in Ottawa, Ontario
– Transport facility and vacant property in Sudbury, Ontario
– Soil/Groundwater investigation of former UST area at quarry property in Renfrew, Ontario
– Groundwater investigation at former gas station property in Mississauga, Ontario
– Former gas station property in Kemptville, Ontario
– Former residential/parking lot property in Ottawa, Ontario
– Groundwater investigation at residential apartment building with former adjacent dry cleaning operations in Ottawa, Ontario
– Residential apartment building with historic industrial activities in Ottawa, Ontario
– Former industrial properties in Belleville, Ontario
– Office building property (former UST) in Ottawa, Ontario

Phase II ESA activities included development of sampling plans and health & safety plans, along with coordination and implementation of utility locates, test pit and drilling activities, monitoring well installation, soil &

groundwater sampling and monitoring activities, analytical results review & interpretation, and client & regulatory reporting.

Project experience – Environmental Investigation, Remediation, and Risk Management

Leaking UST

Senior Engineer/Advisor |
CAI Inc. | Prescott, Ontario, Canada | 2019

Senior Engineer/Advisor for an environmental assessment and remediation of a potentially leaking underground storage tank containing heptane at a coatings, adhesives, and inks manufacturing facility. Responsibilities include:

- Coordination of groundwater and sewer sampling program along with analytical results review and reporting
- Budgetary estimates for remediation of heptane impact, as well as new tank farm design
- General consulting services with client and regulator

Hawkesbury Lagoon Landfill Site

Project Manager/Engineer |
MNRF | Hawkesbury, Ontario, Canada |
2014 - 2020

Project Engineer (later Manager) for the groundwater, leachate, and surface water monitoring program at a former pulp and paper site that is under remediation (lagoon sludge material transferred to landfill constructed on-Site). Responsibilities include coordination of monthly/quarterly groundwater, leachate, and surface water sampling events; advisor for drilling program for new monitoring wells installed within and outside landfill; assessment of hydrogeologic conditions; assessment of sample analytical data to regulatory trigger limits; implementation of applicable corrective action activities; and annual reporting to regulatory requirements. Other responsibilities included ECA amendment application, meeting with MECP, and leachate removal activities.

Waste Oil Tank and Vault Decommissioning

Project Manager/Engineer |
City of Ottawa | Ottawa, Ontario, Canada |
2014 - 2015

Project Manager/Engineer for the environmental assessment and decommissioning of an underground vault and former waste oil tank at the Lemieux Island Water Purification Plant. Responsibilities include:

- Development of a subsurface investigation program (soil and groundwater) in the vicinity of the vault
- Development of detailed design and technical specifications for the tank removal, vault decommissioning, and impacted soil removal
- Tender support, contract administration, and liaison between contractor and City
- Soil and groundwater sample data assessment and closure reporting

Former Amoco Fabrics and Fibers Facility

Project Engineer |
HCISPA | Hawkesbury, Ontario, Canada |
2009 - 2011; 2017 - Ongoing

Project Engineer and Contract Administrator for source removal/remediation activities of former yarn waste area and former sludge lagoon area. Responsibilities include:

- Development of detailed design and technical specification for excavation of yarn waste disposal area and excavation/in-situ chemical oxidation (ISCO) treatment of former sludge lagoon area
- Tender support, contract administration, and liaison between contractor and client
- Soil and groundwater data assessment and reporting of remediation activities

As of 2017, Project Engineer for development of technical specifications for demolition of on-Site treatment system and structures, as well as completion of a due diligence risk assessment (DDRA) for property redevelopment and sale. As of 2018, Project Manager for semi-annual groundwater monitoring program with annual reporting to regulatory agency, along with installation of new monitoring wells. Additional responsibilities included environmental advisor for property redevelopment, ECA application documents.

Implementation of Risk Management Plan

Project Manager/Engineer |
Sakto Corporation | Ottawa, Ontario, Canada |
2008 - Ongoing

Joseph is project manager and engineer for implementation of Risk Management Plan (RMP) at a residential/office building complex, where historic dry cleaning operations impacted groundwater at on and off-site properties. Responsibilities include:

- Assessment of quarterly and semi-annual groundwater and ambient air sampling data
- Annual reporting to City of Ottawa and MOECC
- Coordination and reporting of monthly effluent sampling from a groundwater pre-treatment system (air stripper) to City of Ottawa sanitary sewer (dewatering of 4-storey underground garage)

Based on consistent and/or decreasing groundwater VOC concentrations, the groundwater and air sampling have been reduced to annual events and annual summary reporting.

Former Industrial Facility

Project Manager/Engineer |
Metso Minerals Canada | Belleville, Ontario, Canada | 2010 - 2019

Project Engineer (later Manager) for due diligence activities completed at former mining equipment manufacturing facility with 11 structures constructed between 1915 and 1990. Scope and responsibilities included:

- Project Engineer for Phase I and II ESAs, along with budgetary estimates for risk assessments, demolition, remediation efforts, etc. as part of client divesture of the property
- Project Manager and Engineer for Designated Substance and Hazardous Material survey and reporting
- Project Manager and Engineer for development of design drawings and specifications for the building abatement and demolition activities
- Project Manager for tender support, construction inspection, and contract administration services associated with abatement/demolition

Project experience – Emergency Spill Response

Industrial Facility

Project Manager/Engineer |
DEW Engineering & Development | Ottawa, Ontario, Canada | 2019

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a zinc phosphate solution release affecting Site and adjacent property. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Residential Fuel Oil Spill

Project Manager/Engineer |
Private Resident | Ottawa, Ontario, Canada | 2019

Project Manager/Engineer for completion of initial assessment and subsequent remediation coordination for a fuel oil spill at a private residence. Responsibilities included:

- Coordination of initial assessment/reporting of fuel oil impact and subsequent investigation/sampling to determine extent of impact
- Coordination for soil remediation (excavation) at Site
- Spill closure reporting

Highway 401 Truck Accident

Project Manager/Engineer |
TransForce | Joyceville, Ontario, Canada | 2018

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a diesel fuel spill off Highway 401. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Incident Assessment and Remediation Coordination - Highway 417 Truck Accident

Project Engineer |
TransForce | Ottawa, Ontario, Canada | 2015

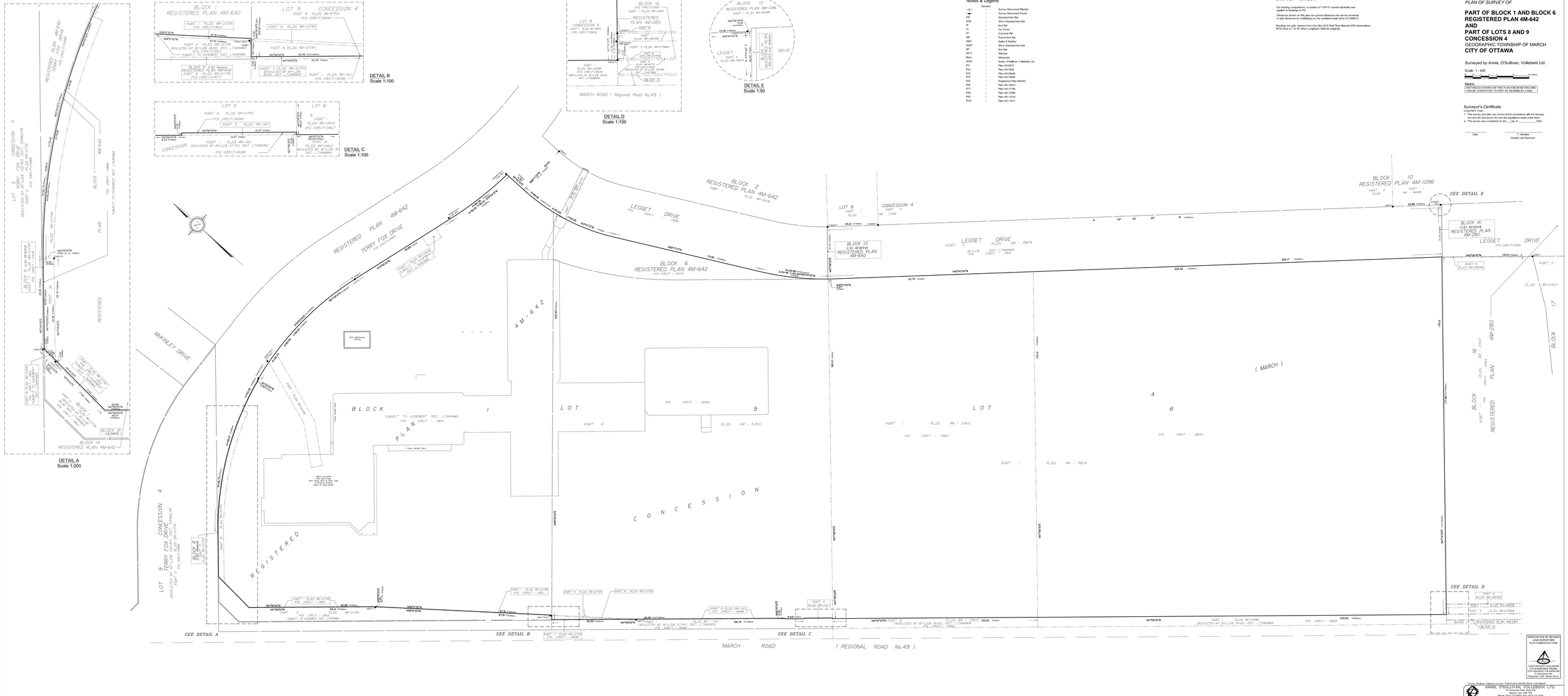
Project Engineer for completion of initial assessment and subsequent remediation coordination for a truck accident that spilled diesel fuel on the highway median. Initial assessment responsibilities included waste contractor coordination (drum removal), collection of incident details, soil sampling of impacted area (delineation and waste disposal purposes), as well as reporting incident to the MOECC Spills Action Centre. Remediation coordination responsibilities included contractor procurement and scheduling (traffic control, remediation, landfill, and laboratory). Work completed at night based on incident location and MTO encroachment permit.

Career history

2001 - present	GHD, Project Manager/Engineer (Ottawa, Ontario; and Plymouth, Michigan)

Appendix B

Legal Survey Drawing


DETAIL A
Scale 1:200
DETAIL B
Scale 1:100
DETAIL C
Scale 1:100
DETAIL D
Scale 1:150
DETAIL E
Scale 1:50
SEE DETAIL A
SEE DETAIL B
SEE DETAIL C
SEE DETAIL D
SEE DETAIL E
MARCH ROAD (Regional Road No.49)
(REGIONAL ROAD No.49)
(MARCH)
REGISTERED PLAN 4M-642
TERRY FOX DRIVE
McKINLEY DRIVE
CONCESSION 4
LOT 9
LOT 8
BLOCK 1
BLOCK 2
BLOCK 6
BLOCK 10
BLOCK 14
BLOCK 16
BLOCK 41
LEGGET DRIVE
4M-642
4M-280
4M-1096
4M-1316
4M-1545
4M-1546
4M-1547
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4M-1584

Appendix C

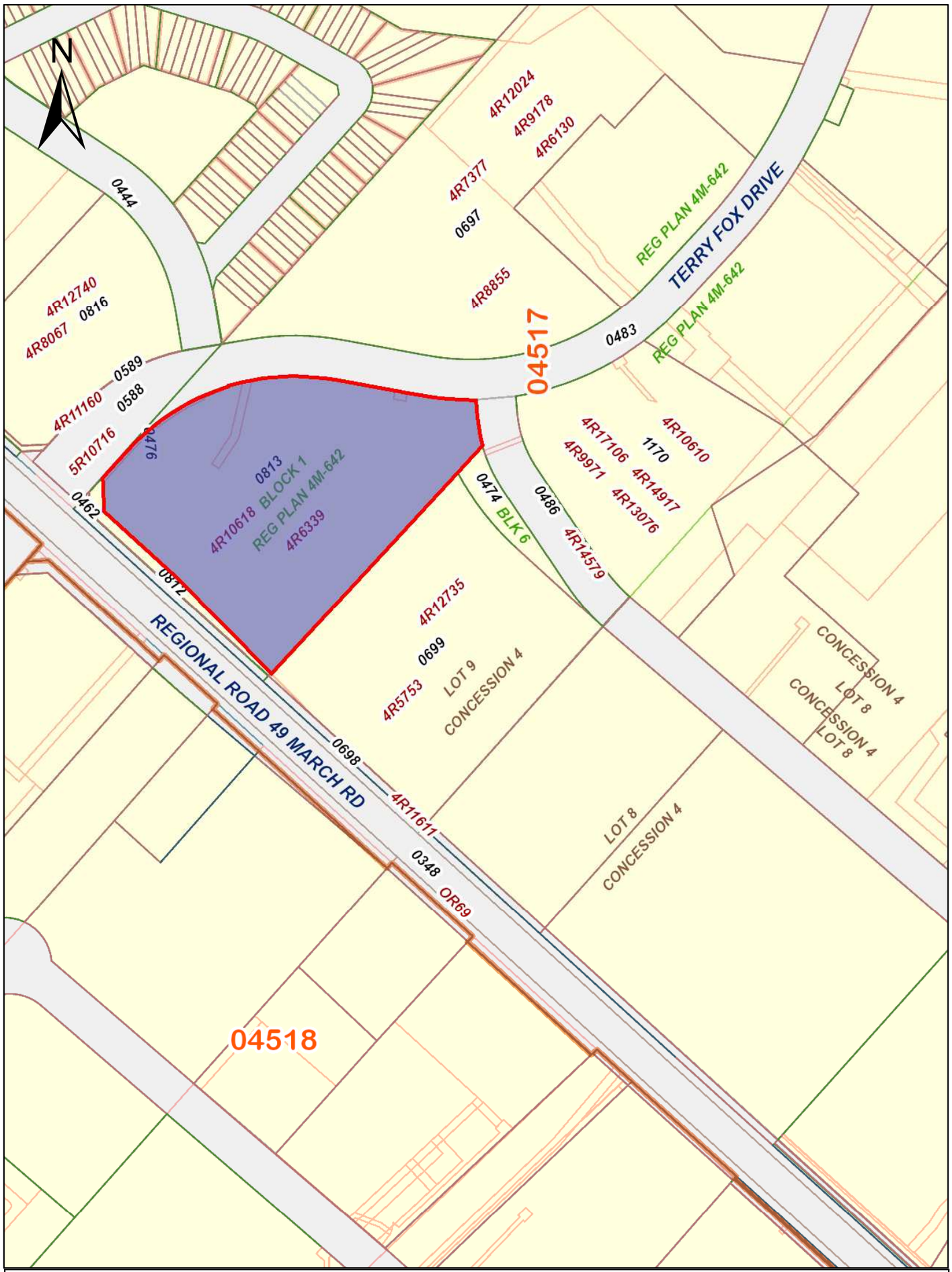
Chain of Title Documentation

Title Summary – 600 March Road, Ottawa

C/M 422231.000229

	PIN	Owner	Description	Transfer No.	Change of Owner Name
1.	**04517-0813 (LT)** **600 March Road**	**Alcatel-Lucent Canada Inc.**	BLOCK 1, PLAN 4M-642 SAVE AND EXCEPT PARTS 1, 2 AND 16 ON PLAN 4R-12735, KANATA.	**LT591903; Reg. 1988/11/29** to Newbridge Networks Corporation Societe Par Actions de Regime Federal de Reseaux Newbridge	LT930493 Reg. 1995/04/05 to Newbridge Networks Corporation; OC129464 Reg. 2002/10/10 to Alcatel Canada Inc.; OC1466862 Reg. 2013/04/11 to **Alcatel-Lucent Canada Inc.**
2.	**04517-0699 (LT)** **600 March Road**	**Alcatel Canada Inc.**	SOUTHEAST HALF OF LOT 9, CONCESSION 4, DESIGNATED AS PART 4 ON 4R-5753, SAVE AND EXCEPT PARTS 1, 2 AND 3 ON PLAN 4R-11611 ; KANATA	**LT611806; Reg. 1989/04/28** to Newbridge Research Corporation	LT998009 Reg. 1996/09/05 to Newbridge Networks Corporation; OC177396 Reg. 2003/13/12 to **Alcatel Canada Inc.**
3.	**04517-0474 (LT)** **600 March Road**	**Newbridge Research Corporation**	PCL 6-1, SEC 4M-642 ; BLK 6, PL 4M-642 ; KANATA	**LT611806; Reg. 1989/04/28** to Newbridge Research Corporation	None
4.	**04517-0467 (LT)** **Parking Lot**	**Newbridge Networks Corporation**	PCL 8-3, SEC MARCH-4 ; PT LT 8, CON 4 , PART 1 , 4R10610 ; KANATA	**LT914779; Reg. 1994/11/03** to Newbridge Networks Corporation	None
5.	**04517-0809 (LT)** **Parking Lot**	**Newbridge Networks Corporation**	PART OF LOT 8 CONCESSION 4, BEING PART 1 ON PLAN 4R7809 EXCEPT PARTS 1 AND 8 ON PLAN	**LT975384; Reg. 1996/05/01**	None

	PIN	Owner	Description	Transfer No.	Change of Owner Name
			4R10610 AND EXCEPT PART 1 ON PLAN 4R12588.	to Newbridge Networks Corporation	



ServiceOntario

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FOR AWEPPL01

SCALE

0 25 50 75 100 125 Meters

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	*0449*
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

THIS IS NOT A PLAN OF SURVEY

Ontario

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PRINTED ON 27 JAN, 2022 AT 11:19:47
FOR AWEPPL01

SCALE

0 50 100 150 200 250 Meters

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

THIS IS NOT A PLAN OF SURVEY

Ontario

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Re: 600 March Road, Kanata

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0813 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 09:06:15

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: BLOCK 1, PLAN 4M-642 SAVE AND EXCEPT PARTS 1, 2 AND 16 ON PLAN 4R-12735, KANATA. SUBJECT TO AN EASEMENT IN FAVOUR OF KANATA HYDRO-ELECTRIC COMMISSION AS IN LT645983. SUBJECT TO AN EASEMENT IN FAVOUR OF KANATA HYDRO-ELECTRIC COMMISSION OVER PART 1 ON PLAN 4R-10618 AS IN LT936988.

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04517-0488

PIN CREATION DATE:
1998/07/22

OWNERS' NAMES
ALCATEL-LUCENT CANADA INC.

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1998/07/22						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1998/07/22 ***						
LT546852	1988/02/05	NOTICE AGREEMENT			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT546853	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT546854	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT547259	1988/02/11	NOTICE AGREEMENT			THE KANATA HYDRO-ELECTRIC COMMISSION	C
LT547261	1988/02/11	NOTICE AGREEMENT			THE KANATA HYDRO-ELECTRIC COMMISSION	C
LT559947	1988/05/25	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
4R6339	1988/07/06	PLAN REFERENCE				C
LT591903	1988/11/29	TRANSFER	$4,018,954		NEWBRIDGE NETWORKS CORPORATION SOCIETE PAR ACTIONS DE REGIME FEDERAL DE RESEAUX NEWBRIDGE	C
REMARKS: AMENDED UNDER LT851607						
LT637583	1989/09/27	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT645983	1989/11/17	TRANSFER EASEMENT			KANATA HYDRO-ELECTRIC COMMISSION	C
LT852259	1993/09/24	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT896041	1994/07/18	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
4R10618	1994/09/12	PLAN REFERENCE				C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT914836	1994/11/04	NOTICE			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT930493	1995/04/05	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION		C
LT936534	1995/06/06	NOTICE		NEWBRIDGE NETWORKS CORPORATION	KANATA HYDRO-ELECTRIC COMMISSION	C
LT936988	1995/06/12	TRANSFER EASEMENT		NEWBRIDGE NETWORKS CORPORATION	KANATA HYDRO-ELECTRIC COMMISSION	C
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
OC129464	2002/10/10	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION	ALCATEL CANADA INC.	C
OC176830	2003/03/10	NOTICE OF LEASE		ALCATEL CANADA INC.	ROGERS WIRELESS INC.	C
OC1466862	2013/04/11	APL CH NAME OWNER		ALCATEL CANADA INC.	ALCATEL-LUCENT CANADA INC.	C
OC1466867	2013/04/11	APL (GENERAL)		ROGERS COMMUNICATIONS INC.	ROGERS COMMUNICATIONS INC.	C
REMARKS: AMENDING OC176830						

Re: 600 March Road, Kanata

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0699 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 09:13:25

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: SOUTHEAST HALF OF LOT 9, CONCESSION 4, DESIGNATED AS PART 4 ON 4R-5753, SAVE AND EXCEPT PARTS 1, 2 AND 3 ON PLAN 4R-11611 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04517-0480

PIN CREATION DATE:
1997/02/10

OWNERS' NAMES
ALCATEL CANADA INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1997/02/10						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1997/02/10 ***						
4R5753	1987/04/16	PLAN REFERENCE				C
LT611806	1989/04/28	TRANSFER	$798,125		NEWBRIDGE RESEARCH CORPORATION	C
LT896041	1994/07/18	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT914836	1994/11/04	NOTICE			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT998009	1996/09/05	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION		C
4R12735	1997/02/18	PLAN REFERENCE				C
LT1110642	1998/03/18	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** KILMER ENVIRONMENTAL INC.		
LT1110941	1998/03/19	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: DELETING LT1110642						
LT1114307	1998/04/06	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** CRANE SUPPLY, A DIVISION OF CRANE CANADA INC.		
LT1115105	1998/04/14	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: LT1114307						
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1302565	2000/07/21	NOTICE OF LEASE		*** COMPLETELY DELETED *** NEWBRIDGE NETWORKS CORPORATION	 CLEARNET PCS INC.	
OC141417	2002/11/15	NOTICE OF LEASE		ALCATEL CANADA INC.	BELL MOBILITY INC.	C
OC177396	2003/03/12	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION	ALCATEL CANADA INC.	C
OC393483	2004/10/18	NOTICE OF LEASE		ALCATEL CANADA INC.	TM MOBILE INC.	C
OC393940	2004/10/19	APL CH NAME INST		*** COMPLETELY DELETED *** CLEARNET PCS INC.	 TELUS COMMUNICATIONS INC.	
REMARKS: LT1302565						
OC393953	2004/10/19	APL (GENERAL)		*** COMPLETELY DELETED *** ALCATEL CANADA INC.		
REMARKS: LT1302565						

Re: 600 March Road

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0474 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 09:30:06

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 6-1, SEC 4M-642 ; BLK 6, PL 4M-642 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK OM516

PIN CREATION DATE:
1995/03/20

OWNERS' NAMES
NEWBRIDGE RESEARCH CORPORATION

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1995/03/20						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1995/03/17 ***						
LT546852	1988/02/05	NOTICE AGREEMENT			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT546853	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT546854	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT547261	1988/02/11	NOTICE AGREEMENT			THE KANATA HYDRO-ELECTRIC COMMISSION	C
LT611806	1989/04/28	TRANSFER	$798,125		NEWBRIDGE RESEARCH CORPORATION	C
LT896041	1994/07/18	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT914836	1994/11/04	NOTICE			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT1110642	1998/03/18	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** KILMER ENVIRONMENTAL INC.		
LT1110941	1998/03/19	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
	REMARKS: DELETING LT1110642					
LT1114307	1998/04/06	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** CRANE SUPPLY, A DIVISION OF CRANE CANADA INC.		
LT1115105	1998/04/14	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
	REMARKS: LT1114307					
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Re: Parking Lot

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0467 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 10:05:55

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 8-3, SEC MARCH-4 ; PT LT 8, CON 4 , PART 1 , 4R10610 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK FA20

PIN CREATION DATE:
1995/03/20

OWNERS' NAMES
NEWBRIDGE NETWORKS CORPORATION

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1995/03/20						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1995/03/17 ***						
4R10610	1994/09/12	PLAN REFERENCE				C
LT914779	1994/11/03	TRANSFER	$516,012		NEWBRIDGE NETWORKS CORPORATION	C
LT1110642	1998/03/18	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** KILMER ENVIRONMENTAL INC.		
LT1110941	1998/03/19	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: DELETING LT1110642						
LT1114307	1998/04/06	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** CRANE SUPPLY, A DIVISION OF CRANE CANADA INC.		
LT1115105	1998/04/14	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: LT1114307						
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Re: Parking Lot

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0809 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 11:21:52

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART OF LOT 8 CONCESSION 4, BEING PART 1 ON PLAN 4R7809 EXCEPT PARTS 1 AND 8 ON PLAN 4R10610 AND EXCEPT PART 1 ON PLAN 4R12588.

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04517-0616

PIN CREATION DATE:
1998/07/22

OWNERS' NAMES
NEWBRIDGE NETWORKS CORPORATION

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1998/07/22						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1998/07/14 ***						
4R7809	1991/11/15	PLAN REFERENCE				C
LT975384	1996/05/01	TRANSFER	$1,100,000	MINTO DEVELOPMENTS INC.	NEWBRIDGE NETWORKS CORPORATION	C
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Appendix D

Municipal Directory Search

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property: *600 March Road, Ottawa, Ontario*
Report Type: *City Directory*
Order No: *22010600440*
Information Source: *Vernon's Ottawa, Ontario City Directory*
Date Completed: *21/01/2022*

Note addendum regarding documentation results.

City Directory Information Source

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

Vernon's Ottawa, Ontario City Directory

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 2011	
Site Listing:	-Alcatel-Lucent
Adjacent Properties:	
March Road (495-720) (No radius information. Available addresses listed individually.)	555 – Goodlife Fitness 591 – Royal Lepage -Wine Craft -Vet Hospital -Bombay Masala -Co-Operators 603 – Belair Networks
Aclam Terracen (30-120) (Missing All)	-Information Inaccessible
Ayton Lane (20-55) (Missing All)	-Information Inaccessible
Banchory Crescent (All) (Missing All)	-Information Inaccessible
Hines Road (40-95) (No radius information. Available addresses listed individually.)	70 – Canadian Legion 84 – Certicom Corp

	-Irdeto Canada -Sidense Corp -Ashton Electronic Systems -Arrow Electronics -Psion Teklogix 88 – Flexus Electronics 95 – Wescar Corp
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 2005/06	
Site Listing:	-Address Not Listed
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Royal Lepage

	603 – Address Not Listed
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – Canadian Legion 84 – Certicom Corp. -Metconnex Inc. -Colonnade Developments -Taral Networks -Telewatch Monitoring -Cloakware Corp. 88 – Wescar Corp. -Flexus Electronics -Telemus Inc. 95 – Wescar Corp -Value Added Solutions
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible

Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 2001/02	
Site Listing:	-Alcatel Networks
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Royal Lepage -Wine Craft -Island Tanning -Vet. Hospital -Ashoka Indian Cuisine 603 – Tundra Semi Conductor
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – PCL Constructors 84 – Sitecast Construction

	88 – Arrow Electronics -Flexus Electronics -Telemus Inc. 95 – Wescar Corp -Value Added Solutions
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 1996/97	
Site Listing:	-Newbridge Networks
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Royal Lepage -Wine Craft -Appliance Experts

	-Vet. Hospital -Market Place 603 – Newbridge Networks
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – Address Not Listed 84 – Address Not Listed 88 – Address Not Listed 95 – Wescar Corp. -Omega Telemus -I-Stat Canada
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

Year: 1992	
Site Listing:	-Newbridge Networks
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Marchview Dry Cleaners -Technology Brokers -Appliance Experts -Vet. Hospital -Bytes Donuts 603 – Newbridge Networks
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – Address Not Listed 84 – Address Not Listed 88 – Address Not Listed 95 – Address Not Listed
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible

11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) (Missing All)	-Information Inaccessible

Kanata, Ontario is listed from 1992 to 2011 within the city directory archives*

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

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

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

Appendix E

Regulatory Documentation

File Number: D06-03-22-0011

February 24, 2022

Marc M. Bouchard
GHD Limited

*Sent via email [*marc.bouchard@ghd.com*]*

Dear Marc,

Re: Information Request
600 March Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation:

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- **Sewer Use Program:** The City's Sewer Use Program has found the following information pertaining to the subject property:
    - Violations of environmental statutes, regulations or bylaws, other environmental records.

Documents Provided:

HLUI Summary Report and HLUI Map

The HLUI Summary Report Excel spreadsheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided HLUI Map PDF. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at https://ero.ontario.ca/ contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact HLUI@ottawa.ca.

Sincerely,

Amya Martinov
Student Planner

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East

Planning Services
Planning, Infrastructure and Economic Development Department

MB / AM

Enclosures: (2)
1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-22-0011

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP

EMRA Feature ID: 3

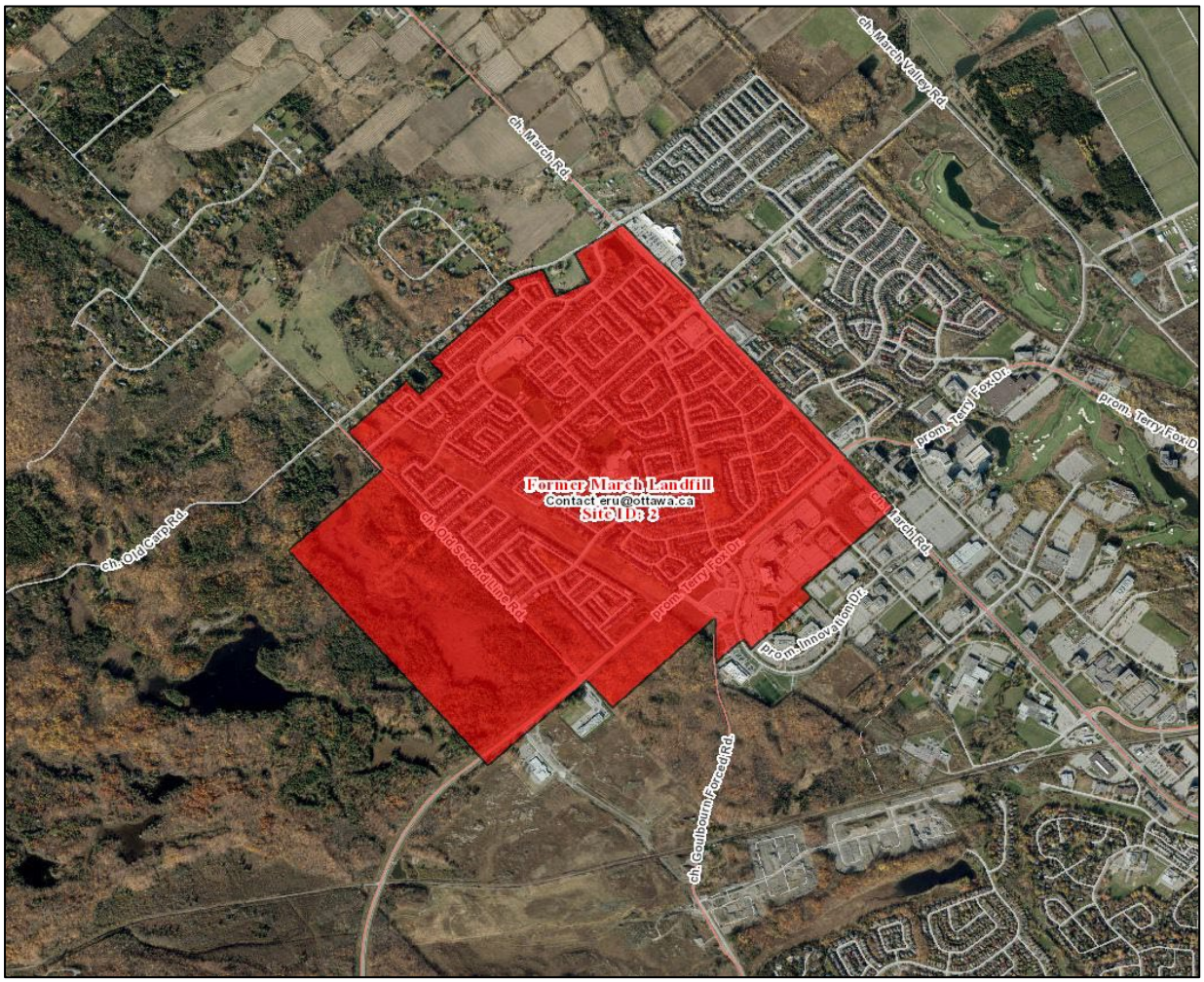
Legend

- Property Parcels - 600 March Road
- Environmental Risk Management Areas within 500m
- HLUI Area Features within 250m

0 340 680 1,020 METERS

Planning Co-op Student
Development Review West
Feb 24 2022
City of Ottawa

Environmental Risk Management Area (ERMA)
Site ID: 2
TERRY FOX DRIVE AT MARCH ROAD – FORMER MARCH LANDFILL



The historic March Landfill operated in this area from 1963 to 1974. There is known groundwater contamination (chlorinated solvents) that extends about 1.5 km from the former March Landfill. Special consideration should be given for projects involving management of groundwater (i.e. contact w/ groundwater, pumping and/or dewatering).

For more information please contact the City's Environmental Remediation Unit (ERU) at ERU-UAE@ottawa.ca

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK
7194	ALCATEL NETWORKS CORPORATION	Communication and Other Electronic Equipment Industries	2000-PID; 2001-ES; 2004-GWStudy; 2006-ES; 2012-ES	1	2000-2001	c. 2000; c. 2001	600	MARCH	RD	K2K2T6	45170813	KANATA	334220; 334290; 334410			
7195	NEWBRIDGE NETWORKS CORP	Communication and Other Electronic Equipment Industries	1996-KNBP; 1998-KBD; 1998-SC	1	1996-1998	c. 1996-1998	600	MARCH	RD	K2K2T6	45170813	KANATA	334110; 334210; 334220; 334410; 334511	335; 336	Design and Manufacture of Digital Communication Products	
7196	NOKIA CANADA	Information and cultural industries	2016-PID	1	2016	PID2016	600	MARCH	RD	K2K2T6	45170813	KANATA	513390			
7649	FORMER MARCH LANDFILL	Environmental Risk Assessment	2017-CityofOttawa-RemediationUnit; 2017-CityofOttawa-Landfill	1	2017											
5642	ONECHIP PHOTONICS	Manufacturing	2012-ES	1			495	MARCH	RD	K2K3G1	45180047	KANATA	334410			
5643	PICARRO INC	Professional, scientific and technical services	2006-ES	1			495	MARCH	RD	K2K3G1	45180047	KANATA	541710			
6058	SANMINA CORPORATION	Electronic Equipment & Supplies-Mfrs	2016-PID; 2017-SalesGenie	1	2016-2017	PID2016	500	MARCH	RD	K2K0J9	45170543	KANATA	334410			
8158	TEXAS INSTRUMENTS CANADA LIMITED	Communication and Other Electronic Equipment Industries	2001-ES	2	2001		505	MARCH	RD	K2K2M5	45180059	Kanata				
6099	CAPRICORN DATA (LASER)	Other Chemical Products Industries	2001-ES; 2004-GWStudy	1	2001	c. 2001	525	MARCH	RD	K2K2M5	45180057	KANATA	325910			
6104	TEKTRONIX CANADA	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES; 2004-GWStudy; 2005-SelectPhone	1	1998-2005	c. 1998; c. 2001; c. 2005	555	MARCH	RD	K2K2M5	45180067	KANATA	334210; 334220; 334410; 334511; 416110; 541380	335		
6105	ASAP-CD SOLUTIONS INC	Other Manufactured Products Industries	2001-ES	1	2001	c. 2001	555	MARCH	RD	K2K2M5	45180067	KANATA	334610			
6106	E-MEDIATE	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES	1	2001	c. 2001	555	MARCH	RD	K2K2M5	45180067	KANATA	443120			
7986	ROHDE AND SCHWARZ CANADA INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	1998-SC; 2001-ES	1	2001		555	MARCH	RD		45180067					
6100	PRINT THREE	Commercial Printing Industries	2001-ES	1	2001	c. 2001	591	MARCH	RD	K2K2M5	45180061	KANATA	323119			
6101	WINE CRAFT	Soft Drink Industry	2001-ES; 2006-ES	1	2001	c. 2001	591	MARCH	RD	K2K2M5	45180061	KANATA	312120			
6102	HILLARYS DRY CLEANERS	Laundries and Cleaners	1998-KBD; 1998-SC	1	1998	c. 1998	591	MARCH	RD	K2K2M5	45180061	KANATA	561740; 812310; 812320; 812330	972		
6103	MILLER'S QUALITY DRY CLEANERS	Laundries and Cleaners	2000-PID	1	2000	c. 2000	591	MARCH	RD	K2K2M5	45180061	KANATA	812320			
5273	INTEGRATED DEVICE TECHNOLOGY INC	Communication and Other Electronic Equipment Industries	2012-ES	1			603	MARCH	RD	K2K2M5	45180065	KANATA	334410			
7764	TRILLIUM TELEPHONE SYSTEMS	Communication and Other Electronic Equipment Industries	1985-M	1	1985		603	MARCH	RD		45180065	KANATA				
9124	TUNDRA SEMICONDUCTOR	Communication and Other Electronic Equipment Industries	2001-ES; 2004-GWStudy; 2006-ES; KanataIndustries-LHK-Industries	1	2001	c. 1985; c. 2001	603	MARCH	RD	K2K2M5	45180065	KANATA	334210; 334220; 334410; 334511	335		
7767	CARP QUALITY CLEANERS & LAUNDRY	Laundries and Cleaners	1994-1998-PID; 1998-SC; 2001-ES; 2006-ES; 2012-ES	1	1994-2001		700	MARCH	RD		45170816	KANATA				
10784	INTELATECH INC	Wholesale trade	2006-ES	1			700	MARCH	RD	K2K2V9	45170815	KANATA	417320			
9152	STAR FASHION CLEANERS	Laundries and Cleaners	1998-SC; 1998-WCTD; 2001-ES; 2006-ES; 2012-ES; 2017-SalesGenie	1	1998-2017	c. 1998; c. 1998-1999; c. 1999	700	MARCH	RD	K2K2V9	45170816	KANATA	561740; 812310; 812320; 812330	972		
9126	SHELL CANADA PRODUCTS	Gasoline Service Stations	2005-PropertyAssessment; 2006-ES; 2012-ES; 2017-SalesGenie	1	2005-2017	c. 2005	720	MARCH	RD	K2K2R9	45170784	KANATA	447110; 447190			
5262	BSI MANAGEMENT	Professional, scientific and technical services	2012-ES	1			515	LEGGET	DR	K2K3G4	45170902	KANATA	541380			
5263	CLEARFORD INDUSTRIES INC	Administrative and support, waste management and remediation services	2006-ES	1			515	LEGGET	DR	K2K3G4	45170902	KANATA	562210			
5585	DHS	Retail trade	2006-ES	1			525	LEGGET	DR	K2K2W2	45171135	KANATA	443110			
5598	ESIGHT CORP	Manufacturing	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	339110			
5599	IMS BROGAN	Professional, scientific and technical services	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	541710			
5600	PIKA TECHNOLOGIES INC	Manufacturing	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	334290			
5601	SOLACE SYSTEMS INC	Manufacturing	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	334110			
6025	NORTEL - WAREHOUSE	Electric Lighting Industries	2001-ES; 2006-ES; 2012-ES	1	2006-2012	ES 2001; ES 2006; ES 2012	535	LEGGET	DR	K2K3B8	45171171	KANATA	334290; 541510			
5586	ACBEL	Manufacturing	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	334410			
5587	BLACKWOOD CORPORATE CENTRE TCC	Real estate and rental and leasing	2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	532310			
5588	BRECHIN GROUP INC	Manufacturing	2006-ES; 2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	323115			
5589	ECONORACK	Wholesale trade	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	417230			
5590	FLUKE ELECTRONICS	Retail trade	2001-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	443110			
5591	I2	Retail trade	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	443120			
5592	MINDSPEED INC	Professional, scientific and technical services	2001-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	541710			
5593	NAVISTAR DEFENSE CANADA	Manufacturing	2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	336990			
5594	RF-LAMBDA INC (CANADA)	Wholesale trade	2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	417320			
5595	STAR FASHION CLEANERS	Laundries and Cleaners	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	812320			
5596	INDIGO ELECTRONICS	Retail trade	2001-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	443110			
5597	MARCH NETWORKS	Manufacturing	2001-ES; 2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	334310			
6024	SYNERGY PRINT AND COPY	Commercial Printing Industries	2001-ES; 2005-SelectPhone; 2006-ES; 2012-ES	1	2001-2012	c. 2001; c. 2005	555	LEGGET	DR	K2K2X3	45171170	KANATA	323114		#130	
7656	FERROTRONIC COMPONENTS INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2001-ES; 2005-SelectPhone	1	2001-2005		555	LEGGET	DR							
7657	FINE TECH INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2001-ES	1	2001		555	LEGGET	DR							
7658	HIVVA TECHNOLOGIES	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2005-SelectPhone	1	2005		555	LEGGET	DR							
7659	PMC SIERRA INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2005-SelectPhone; 2006-ES	1	2005		555	LEGGET	DR							
7660	SYMBOL TECHNOLOGIES CANADA	Electric Lighting Industries	2001-ES	1	2001		555	LEGGET	DR							

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK
7661	TELEGUARD MONITORING SYSTEMS	Electric Lighting Industries	2005-SelectPhone	1	2005		555	LEGGET	DR							
5277	DRS EW & NETWORK SYSTEMS CANADA	Manufacturing	2006-ES	1			50	HINES	RD	K2K2M5	45180059	KANATA	339990			
5278	OM-VIDEO INC	Retail trade	2006-ES	1			50	HINES	RD	K2K2M5	45180059	KANATA	443110			
5279	POWER INTEGRATIONS	Manufacturing	2012-ES	1			50	HINES	RD	K2K2M5	45180059	KANATA	335990			
9138	CYRIUM TECHNOLOGIES	Manufacturing	2012-ES	1	2012	ES 2012	50	HINES	RD	K2K2M5	45180059	KANATA	334410; 335990			
9139	ELECTRO SOURCE INC	Semiconductor Devices, Microprocessors, Power Supply (Electrical)	2001-ES; 2004-GWStudy; 2006-ES	1	1984	GW Study 2004 Scotts	50	HINES	RD	K2K2M5	45180059	KANATA	419170	5065	50 Hines Rd	
9140	EXCALIBUR SYSTEMS LTD	Simulators, Electronic Components, Computer Software (Simulation), Radar Systems (Naval)	2001-ES; 2004-GWStudy	1	1988	GW Study 2004 Scotts	50	HINES	RD	K2K2M5	45180059	KANATA	333990	3699	50 Hines Rd	
9141	HUBER & SUHNER CANADA	Telecommunication Carriers Industry	2000-PID; 2001-ES	1	2000	c. 2000; c. 2001	50	HINES	RD	K2K2M5	45180059	KANATA	334290; 517110; 517210; 517310; 517410; 517910			
9142	XILINX INC	Semiconductors & Related Devices (Mfrs)	2006-ES; 2017-SalesGenie	1	2017	SalesGenie 2017	50	HINES		K2K2M5	45180059	KANATA	33441303	3674-98		
9143	ARROW ELECTRONICS CANADA LIMITED	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES; 2004-GWStudy; 2005-SelectPhone; 2006-ES; 2012-ES	2	2005	c. 2005	84	HINES	RD	K2K3G3	45180101	KANATA	417310; 417320; 443120		#100	
9144	SKYWORKS SOLUTIONS (TEST LAB)	Wholesale trade	2016-PID	1	2016	PID2016	84	HINES	RD	K2K3G3	45180101	KANATA	417310			
5280	ARROW-OTTAWA TECHNOLOGY CENTER (OT	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2012-ES	1			84	HINES	RD	K2K3G3	45180101	KANATA	416110			
5281	CERTICOM	Manufacturing	2006-ES	1			84	HINES	RD	K2K3G3	45180101	KANATA	331490			
5282	QUAKE TECHNOLOGIES	Manufacturing	2001-ES	1			84	HINES	RD	K2K3G3	45180101	KANATA	334410			
7765	TARAL NETWORKS	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2005-SelectPhone	1	2005		84	HINES	RD		45180101					
6096	TELEMUS INC	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES; 2005-SelectPhone; 2006-ES; 2017-SalesGenie	1	2005-2017	c. 2001; c. 2005	88	HINES	RD	K2K2T8	45180011	KANATA	334410; 417320			
5639	FLEXUS ELECTRONICS	Communication and Other Electronic Equipment Industries	2006-ES	1			88	HINES	RD	K2K2T8	45180011	KANATA	334410			
5640	HOLMES & BRAKEL BUSINESS INTERIORS	Retail trade	2012-ES	1			88	HINES	RD	K2K2T8	45180011	KANATA	442110			
5641	ULTRA ELECTRONICS TCS (TELEMUS)	Manufacturing	2012-ES	1			88	HINES	RD	K2K2T8	45180011	KANATA	334220			
5602	ALCATEL NETWORKS CORPORATION	Communication and Other Electronic Equipment Industries	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	334290			
5603	INTELLIGENT MEMS DESIGN INC	Manufacturing	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	335990			
5604	RIDGEWAY RESEARCH CORPORATION	Professional, scientific and technical services	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	541710			
5605	SMART TECHNOLOGIES INC	Manufacturing	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	334110			
6026	SCIEMETRIC INSTRUMENTS INC	Controls Control Systems/Regulators-Mfrs	2017-SalesGenie	1	2017	SalesGenie 2017	359	TERRY FOX	DR	K2K2E7	45171172	KANATA	33451202	Apr-22	100	
5309	API FILTRAN	Semiconductors & Related Devices (Mfrs)	2012-ES	1			360	TERRY FOX	DR	K2K2P5	45170697	KANATA	334410			
5310	SCIEMETRIC INSTRUMENTS INC	Manufacturing	2006-ES	1			360	TERRY FOX	DR	K2K2P5	45170697	KANATA	334512			
9180	VOLEX CAPULUM INC	Communication and Other Electronic Equipment Industries	2001-ES	1	2001	c. 2001	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	334410			
9181	DICAP CORP	Communications and Energy Wire And Cable Industry	1998-SC	1	1998	c. 1998	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	335920	338		
9182	API TECHNOLOGIES CORP	Semiconductors & Related Devices (Mfrs)	2017-SalesGenie	1	2017	SalesGenie 2017	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	33441303	3674-98		
9183	ARTAFLEX INC	Electronic Equipment & Supplies-Mfrs	2017-SalesGenie	1	2017	SalesGenie 2017	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	33441902	Jan-79		
5290	INNOCOR	Manufacturing	2006-ES	2			362	TERRY FOX	DR	K2K2P5	45170471	KANATA	334110			
5291	JDS UNIPHASE	Manufacturing	2012-ES	1			362	TERRY FOX	DR	K2K2P5	45170471	KANATA	334290			
5292	SERESCO TECHNOLOGIES INC	Professional, scientific and technical services	2006-ES	1			362	TERRY FOX	DR	K2K2P5	45170471	KANATA	541710			
9147	PFLEMINGCOM	Communications and Energy Wire And Cable Industry	2001-ES	1	2001	c. 2001	362	TERRY FOX	DR	K2K2P5	45170471	KANATA	335920			
9148	INSTANTEL INC	Communication and Other Electronic Equipment Industries	1998-KBD	1	1998	c. 1998	362	TERRY FOX	DR	K2K2P5	45170471	KANATA	334210; 334220; 334410; 334511	335	Design and manufacture blast mate seismographs and watch mate wandering patient systems.	

Marc Bouchard

From: Public Information Services <publicinformationservices@tssa.org>
Sent: January 7, 2022 5:51 PM
To: Marc Bouchard
Subject: RE: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

Follow Up Flag: Follow up
Flag Status: Flagged

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

NO RECORD FOUND

Hello Marc,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Sherees

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Marc Bouchard <Marc.Bouchard@ghd.com>
Sent: January 7, 2022 3:42 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: RE: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon Sherees,

Thank you kindly for this information. Would you mind also confirming the same for the following properties in the vicinity?

88 Hines Road
- 84 Hines Road
- 70 Hines Road
- 50 Hines Road
- 3001 Solandt Road
- 425 Legget Drive
- 515 Legget Drive
- 525 Legget Drive
- 535 Legget Drive
- 555 Legget Drive
- 362 Terry Fox Drive
- 360 Terry Fox Drive
- 359 Terry Fox Drive

Your assistance is appreciated,

Marc M. Bouchard
Project Scientist
Contaminated Site & Remediation Group | Eastern Canada

GHD
D 613 288 1724 **M** 613 878 6300 **E** marc.bouchard@ghd.com

---

From: Public Information Services <publicinformationservices@tssa.org>
Sent: January 6, 2022 8:16 PM
To: Marc Bouchard <Marc.Bouchard@ghd.com>
Subject: RE: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

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

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Sherees

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Marc Bouchard <Marc.Bouchard@ghd.com>
Sent: January 6, 2022 12:33 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon,

Could the TSSA please advise if there are any records of registered or licensed fuel storage tanks for the following sites in Kanata (Ottawa), Ontario:

- 706 March Road
- 700 March Road
- 603 March Road
- 600 March Road
- 595 March Road
- 591 March Road
- 555 March Road
- 525 March Road
- 500 March Road
- 495 March Road

Your assistance is appreciated,

Thanks kindly,

Marc Bouchard
Project Scientist
Eastern Canada

GHD
Proudly employee-owned | ghd.com
179 Colonnade Road Suite 400 Ottawa Ontario K2E 7J4 Canada
D 613 288 1724 **M** 613 878 6300 **E** marc.bouchard@ghd.com

→ The Power of Commitment

Connect

Please consider the environment before printing this email

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This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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

Ontario

September 7, 2022

Marc Bouchard
GHD Limited
179 Colonnade Road, Unit 400
Ottawa, Ontario K2E 7J4
marc.bouchard@ghd.com

Dear Marc Bouchard:

RE: MECP FOI A-2022-00221, Your Reference #: 20220106102449103 – Record Release Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to 600 March Road, Kanata, Ottawa.

Attached is a copy of the records.

If you have any questions, please contact Gita Ramburuth at 647-449-3079 or gita.ramburuth@ontario.ca.

Yours truly,

Gita Ramburuth

For

Ryan Gunn
Manager (A), Access and Privacy Office

Attachment

Ontario

Ministry of the Environment, Conservation and Parks

Generator Details

Registration/Notification Number

ON0044812

Legal Company Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Company Operating Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Mailing Address

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road	Address Line 2:	NA
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road		
Address Line 2:	NA		
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Company Official

Ontario

Ministry of the Environment, Conservation and Parks

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Company Name: **NOKIA CANADA**
Company Number: **ON0044812 (Generator)**

Active Waste Classes

Active Waste Class Listing

Add New Waste Class Inactive waste classes

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site	Status	UnRegister Waste Class
112 - C	View details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
121 - C	View Details	D002	5, 13	Potential Land Disposal	Y	Y	Solid	Off-Site	Active	☐
122 - C	View Details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
		D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
145 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
146 - R	View Details	D003	5, 13	Land Disposal	Y	Y	Solid	Off-Site	Active	☐
146 - T	View Details	D009	5, 13	Out of Ontario - Potential Land Disposal	Y	Y	Solid	Off-Site	Active	☐
148 - B	View Details	U151	2B, 12	Land Disposal	Y	Y	Solid	Off-Site	Active	☐

148 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
212 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
		D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
212 - L	View Details	N/A					Liquid	Off-Site	Active
213 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
242 - A	View Details	P037	2A	Land Disposal	Y	Y	Liquid	Off-Site	Active
252 - L	View Details	N/A					Liquid	Off-Site	Active
263 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
331 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active

Unregister Selected Classes

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Version Number 4.3.3

July 5, 2001

ALCATEL CANADA INC.
600 MARCH ROAD

KANATA, ON
K2K 2E6

Attention: MR. JOEL RABIDEAU

Re: Acknowledgement of Subject Waste Registration

In accordance with Subsection 18(3) of Ontario Regulation 347, this letter acknowledges receipt of your Generator Registration report dated June 26, 2001. The Generator Registration Number assigned to your company is:

ON0044812

for the site located at: 600 MARCH ROAD

KANATA
ON

A list of acknowledged waste number(s) is attached as Schedule 'A'. A waste number appears only once, regardless of the number of different waste streams which may have identical waste numbers. The waste description is also generic. However, you are still required to register all waste streams, even if they have identical waste numbers.

For off-site disposal of subject waste, the appropriate waste number(s) acknowledged in Schedule 'A', and the Generator Registration Number, must be entered in Part A of each manifest form after receipt of this generator registration document. Under Ontario's Environmental Protection Act, the property receiving the waste must be approved as a disposal site for the waste it is receiving. The disposal of waste at an uncertified site is illegal.

The selection of accurate waste numbers is your responsibility. This acknowledgement must not be considered a confirmation of the accuracy of the information submitted by you. Should the waste number(s) you have selected be deemed incorrect by the Ministry, or improper waste disposal occurs at any time, you may be subject to legal action as provided by the Environmental Protection Act and Regulation 347.

SCHEDULE 'A'

In accordance with information submitted with your generator registration report(s), the site indicated below is registered for the waste number(s) shown on this schedule, which may represent more than one waste stream. This attached Schedule forms part of the acknowledgement of generator registration report dated June 26, 2001 for the following site:

ALCATEL CANADA INC.
600 MARCH ROAD

KANATA
ON

identified by Generator Registration Number ON0044812, dated in Toronto, July 5, 2001

WASTE STREAM	WASTE NUMBER
ALKALINE WASTES - HEAVY METALS	121C
OTHER SPECIFIED INORGANICS	146T

----- *End of List* -----

Company Name: **NOKIA CANADA**
Company Number: **ON0044812 (Generator)**

Active Waste Classes

Active Waste Class Listing

Add New Waste Class Inactive waste classes

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site	Status	UnRegister Waste Class
112 - C	View Details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
121 - C	View Details	D002	5, 13	Potential Land Disposal	Y	Y	Solid	Off-Site	Active	
122 - C	View Details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
		D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
145 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
146 - R	View Details	D003	5, 13	Land Disposal	Y	Y	Solid	Off-Site	Active	
146 - T	View Details	D009	5, 13	Out of Ontario - Potential Land Disposal	Y	Y	Solid	Off-Site	Active	
148 - B	View Details	U151	2B, 12	Land Disposal	Y	Y	Solid	Off-Site	Active	
148 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
212 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
		D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
212 - L	View Details	N/A					Liquid	Off-Site	Active	
213 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
242 - A	View Details	P037	2A	Land Disposal	Y	Y	Liquid	Off-Site	Active	
252 - L	View Details	N/A					Liquid	Off-Site	Active	
263 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
331 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	

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Generator Details

Registration/Notification Number

ON0044812

Legal Company Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Company Operating Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Mailing Address

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road	Address Line 2:	NA
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road		
Address Line 2:	NA		
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Company Official

The Company Official is the individual within your organization who is responsible for managing hazardous and liquid industrial waste. The Company Official will also serve as an HWIN Administrator for the organization. The Company Official may also delegate HWIN responsibilities to other individuals. You may designate this responsibility in the Additional HWIN Administrator section below.

Name : Mr Roy Bean

Designation:	Facilities Services Technicain	Business Phone:	3435533921 Ext : NA
Mobile:	NA	Fax Number:	NA Ext : NA
Email Address:	roy.bean.ext@nokia.com	User Name:	alcatel

Additional HWIN Administrator

The HWIN Company Official may delegate HWIN Administrator responsibility to other individuals. One additional administrator may be defined below and / more administrators may be registered by an HWIN Administrator after initial registration.

Name:			
Designation:		Business Phone:	Ext :
Mobile:		Fax Number:	Ext :
Email Address:		User Name:	

Contact Person

HWIN requires that you designate one person to serve as the contact person who will receive all HWIN e-mail messages. Please indicate below whether you want the Company Official or the Additional HWIN Administrator to serve as the contact person.

Company Official

Does your organization manage waste on-site? No

NAICS Codes

NAICS Code 1	513390
NAICS Code 2	NA
NAICS Code 3	NA

Company MOE Password: NO35OEFD Company Status: REGISTERED

Added by: Generator

UTM Coordinates

The coordinates provided by Global Positioning System (GPS) units is primarily based on the Universal Transverse Mercator (UTM) projection. These coordinates describe a point location, such as the front gate of a property, by the 'easting' (always a 6 digit number) and 'northing' (always a 7 digit number). Please enter your coordinates to the nearest metre."

UTM X-value: (easting) UTM Y-value: (northing)

Site Historical Records

NAICS Historical Records

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Ministry of the Environment

OCCURENCE REPORT

Location of Occurence: OTTAWA CITY 600 MARCH ROAD, KANATA, ONTARIO K2K 2F6 **Reg:** 4 **Dist:** OT **Municipality:** 20107		**Source:** ALCATEL NETWORKS CORPORTION PO BOX 13600, 600 MARCH RD.,KANATA,ONT. **Sector: Source: SIC:** **UTM:** **N:** [] **E:** [] **Zone:** []	
Entered: 2001/08/14 07:52	**ORIS No.** 9940008651	**Abstracts:** 0	**Diaries:** 0
Received By: CAROL BOOTH		**Batch:** 3958	**I. E. B. No.**
Occurence Type: O	**Subtype:** 99	**Occurence Date:**	2001/08/14
Work Plan:	WH	**Occurence Time:**	
Reported By: DAN DRAIN ALL		**Report to MOE :** 2001/08/14 00:00 **MOE at Scene:**	
Telephone No. 613-739-1070 **x**	**Alternate No.** **x**	**Assigned To:**	TOR RUSTAD
Address: 2705 STEVENAGE DRIVE, R. R. #4 GLOUCESTER, **Postal Code:** K1G 3N4		**ERP Contacted:** **Callout:** [] **ERP Name:**	**NSP:** []

Syn: ISSUED EMERGENCY GENERTOR NUMBER

Brief Summary:
ISSUED EMERGENCY GENERATOR NUMBER FOR MANIFEST: MM75869-6, FOR WASTE CLASS NUMBER 265L WASTE(LIQUID INDUSTRIAL WASTE "GLUE").

If there are related reports, record initial/master ORIS No. here >>

Followup Action: X **Abatement IEB Other**
BF Date:

File Closed: Y **Abatement: IEB Other**
Suspected Violation:

Report Prepared By:	**Date:**	**IEB Investigator:**	**IEB BF Date**
CAROL BOOTH	08/14/2001		
Approving Officer	**Date:**	**Reviewing Officer:**	**Date**
PAUL KEHOE	08/14/2001		

Specify number(s) for routing Original [ ] [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ] [ ]

1. Investigator/E.O. **2. D. O. /File** **3. SAC (initial spills)**
4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: 1: 2:

Material 1:	**Code :**
Amount :	**UN No.:**
Material 2:	**Code :**
Amount :	**UN No.:**
Material 3:	**Code :**
Amount :	**UN No.:**

Cause. . . . . :
Reason. . . . . :

Code. . :
Code. . :

Person in Control:
Owner . . . . . :
Agencies Involved . . . . :

Waste GenNum :
Waste GenNum :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:

Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class :
Hauler :
Disposal Site :

Code . . :
Code . . :
Code . . :

Environmental Impact:

Nature of Impact:

Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage:

Code . . :

Ontario

Ministry of the Environment

OCCURENCE REPORT

Location of Occurence:
OTTAWA CITY
600 MARCH RD.,BOX 13600,KANATA, K2K 2E6

Reg: 4 **Dist:** OT **Municipality:** 20107

Source:
ALCATEL
COMMUNICATIONS INFRASTRUCTURE
Sector: SI **Source:** OT **SIC:** 9999
UTM:
N: [] **E:** [] **Zone:** []

Entered:	ORIS No.	Abstracts:	Diaries:
2001/07/12 13:39	9940008288	0	0

Received By:	Batch:	I. E. B. No.
CAROL BOOTH	4027	

Occurence Type:	Subtype:	Occurence Date:	2001/07/12
O	99		
Work Plan:	WH	**Occurence Time:**	

Reported By:
DRAIN ALL LTD.

Report to MOE : 2001/07/12 00:00
MOE at Scene:

Telephone No.	Alternate No.	Assigned To:	MARLA WILLIAMS
613-739-1070 x	x		

Address:
2705 STEVENAGE DRIVE
GLOUCESTER, ONTARIO
Postal Code: K1G 3N2

ERP Contacted:
Callout: []
ERP Name:
NSP: []

Syn: ISSUED EMERGENCY GENERATOR NUMBER

Brief Summary:
ISSUED EMERGENCY GENERATOR NUMBER FOR MANIFEST: SS42981-0, FOR WASTE CLASS NUMBER 263A WASTE(POISONOUS SOLIDS NOS. "2 CYCLOHEXYL-4, 6-DINITROPHENOL)

If there are related reports, record initial/master ORIS No. here >>

Followup Action: X **Abatement IEB Other**
BF Date:

File Closed: Y **Abatement: IEB Other**
Suspected Violation:

Report Prepared By:	Date:	IEB Investigator:	IEB BF Date
CAROL BOOTH	07/12/2001		

Approving Officer	Date:	Reviewing Officer:	Date
PAUL KEHOE	07/12/2001		

Specify number(s) for routing Original [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ]
1. Investigator/E.O. **2. D. O. /File** **3. SAC (initial spills)**
4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: 1: 2:

Material 1: **Code :**
Amount : **UN No.:**
Material 2: **Code :**
Amount : **UN No.:**
Material 3: **Code :**
Amount : **UN No.:**

Cause. . . . . :
Reason. . . . . :

Code. . :
Code. . :

Person in Control:
Owner . . . . . :
Agencies Involved . . . . :

Waste GenNum :
Waste GenNum :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:

Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class :
Hauler :
Disposal Site :

Code . . :
Code . . :
Code . . :

Environmental Impact:

Nature of Impact:

Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage:

Code . . :

Ontario

Ministry of the Environment

OCCURENCE REPORT

Location of Occurence: OTTAWA CITY 600 MARCH ROAD, KANATA WARD **Reg:** 4 **Dist:** OT **Municipality:** 20107		**Source:** ALCATEL COMMUNICATIONS INFRASTRUCTURE **Sector:** SI **Source:** OT **SIC:** 9999 **UTM:** **N:** [] **E:** [] **Zone:** []	
Entered: 2001/05/18 13:45	**ORIS No.** 9940007645	**Abstracts:** 0	**Diaries:** 0
Received By: TOR RUSTAD		**Batch:** 3938	**I. E. B. No.**
Occurence Type: O	**Subtype:** 99	**Occurence Date:**	
Work Plan:	AI	**Occurence Time:**	
Reported By: TOR RUSTAD ENVIRONMENT, OTTAWA DISTRICT		**Report to MOE :** 2001/05/11 00:00 **MOE at Scene:**	
Telephone No. 613-521-3450 **x**	**Alternate No.** - - **x**	**Assigned To:**	TOR RUSTAD
Address: 2435 HOLLY LANE OTTAWA **Postal Code:** K1V 7P2		**ERP Contacted:** **Callout:** [] **ERP Name:**	**NSP:** []

Syn: ALCATEL- FAIL TO SUBMIT STORAGE REPORT FOR SUBJECT WASTES

Brief Summary:
MINISTRY STAFF CONDUCTED AN INSPECTION TO DETERMINE ALCATEL'S COMPLIANCE WITH REGULATION 347. ALCATEL HAD NOT SUBMITTED A WASTE STORAGE REPORT FORM. STAFF AT ALCATEL STORED SUBJECT WASTES FOR MORE THAN 90 DAYS WITHOUT FILING A REPORT FORM AND THIS IS CONTRARY TO SUBSECTION 18(10) OF REGULATION 347. .... JUNE 22, 2001: THE WASTE STORAGE REPORT FORM WAS SUBMITTED TO THE MINISTRY. NO FURTHER ACTION REQUIRED.

If there are related reports, record initial/master ORIS No. here >> s.21

Followup Action: **Abatement** **IEB** **Other**
BF Date:

File Closed: X **Abatement:** **IEB** **Other**
Suspected Violation:

Report Prepared By: TOR RUSTAD	**Date:** 07/24/2001	**IEB Investigator:**	**IEB BF Date**
Approving Officer PAUL KEHOE	**Date:** 07/24/2001	**Reviewing Officer:**	**Date**

Specify number(s) for routing Original [ ] [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ] [ ]

1. Investigator/E.O. **2. D. O. /File** **3. SAC (initial spills)**
4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: **1:** **2:**

Material 1:	**Code :**
Amount :	**UN No.:**
Material 2:	**Code :**
Amount :	**UN No.:**

Material 3: Code :
Amount : UN No.:

Cause. . . . . : Code. . :
Reason. . . . . : Code. . :

Person in Control: Waste GenNum :
Owner . . . . . : Waste GenNum :
Agencies Involved . . . . :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:
Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class : Code . . :
Hauler : Code . . :
Disposal Site : Code . . :

Environmental Impact: Nature of Impact:
Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage: Code . . :

Appendix F

ERIS Database Summary

DATABASE REPORT

Project Property:	*600 March Road, Ottawa, Ontario* *600 March Road* *Kanata ON K2K 2T6*
Project No:	*12566614*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22010600440*
Requested by:	*GHD Limited*
Date Completed:	*January 18, 2022*

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

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Executive Summary

Property Information:

Project Property:	*600 March Road, Ottawa, Ontario* *600 March Road Kanata ON K2K 2T6*
Project No:	*12566614*

Order Information:

Order No:	*22010600440*
Date Requested:	*January 6, 2022*
Requested by:	*GHD Limited*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*CD - Subject Site plus 250m Radius*
Land Title Search	*Historical Land Title Search*
Topographic Map	*RSC Maps*
Topographic Map	*National Topographic Maps*

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	3	3
CA	Certificates of Approval	Y	0	30	30
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	4	4
EASR	Environmental Activity and Sector Registry	Y	0	3	3
EBR	Environmental Registry	Y	0	6	6
ECA	Environmental Compliance Approval	Y	0	25	25
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	46	46
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	8	8
FSTH	Fuel Storage Tank - Historic	Y	0	2	2
GEN	Ontario Regulation 347 Waste Generators Summary	Y	12	95	107
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	3	3
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	4	62	66
SPL	Ontario Spills	Y	0	6	6
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	8	8
	Total:		16	302	318

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	NW/0.0	-0.02	66
1	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	NW/0.0	-0.02	66
1	SCT	Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW/0.0	-0.02	66
1	SCT	Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW/0.0	-0.02	67
2	GEN	ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	NW/0.0	-0.05	67
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	67
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	68
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	68

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	68
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON	NW/0.0	-0.05	69
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	69
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	70
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	71
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	72
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	73
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	73

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	GEN	Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	E/2.0	-2.14	74
4	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	E/2.5	-2.05	75
5	CA	MINTO DEVELOPMENTS INC.	LEGGET DR/TERRY FOX DR/SOLANDT KANATA CITY ON	N/12.8	-1.99	75
6	CA	KANATA RESEARCH PARK CORP.	TERRY FOX DR. MARCH RD. KANATA CITY ON	WNW/23.7	1.03	75
6	CA	TAYSHAM INVESTORS INC.	MARCH ROAD, TERRY FOX DR. KANATA CITY ON	WNW/23.7	1.03	76
6	SPL		Terry Fox and March Rd Ottawa ON	WNW/23.7	1.03	76
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	76
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	77
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	78
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	79
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	80
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	80

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
9	WWIS		lot 9 con 3 ON ***Well ID:*** 1503345	WSW/49.9	1.92	81
10	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/60.0	-3.86	84
10	CA	Nortel Networks Corporation	535 Legget Drive Ottawa ON	ENE/60.0	-3.86	84
10	CA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON	ENE/60.0	-3.86	84
10	SCT	Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	ENE/60.0	-3.86	85
10	SCT	PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	ENE/60.0	-3.86	85
10	SCT	Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	ENE/60.0	-3.86	85
10	NPRI	KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	ENE/60.0	-3.86	86
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	88

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
10	ECA	Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	ENE/60.0	-3.86	88
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	89
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	89
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	89
11	EHS		700 March Road Ottawa ON	NW/69.7	-0.81	90
12	ECA	Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	ENE/70.7	-2.67	90
13	WWIS		lot 9 con 3 ON ***Well ID:*** 1510215	W/76.5	2.20	90
14	SCT	CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	SW/78.4	1.86	93
14	SCT	Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	SW/78.4	1.86	94
15	ECA	Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	SE/81.0	-1.74	94
15	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/81.0	-1.74	94
16	EHS		510-528 March Road Kanata ON	SE/81.4	-2.05	95
16	EHS		528 March Road Ottawa ON	SE/81.4	-2.05	95

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
16	EASR	SCI BROCKVILLE CORP.	528 MARCH KANATA ON	SE/81.4	-2.05	96
16	EASR	SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	SE/81.4	-2.05	96
17	GEN	MILLER'S QUALITY DRY CLEANERS	591 MARCH ROAD KANATA ON K2K 2M5	W/89.1	2.20	96
17	EHS		591 March Road Kanata ON K2K 2M5	W/89.1	2.20	96
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	97
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	97
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	97
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	98
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON	W/89.1	2.20	98
17	EHS		591 March Rd Ottawa ON K2K2M5	W/89.1	2.20	98
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	99
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	99
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	99

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	100
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	100
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	100
18	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	S/89.5	0.95	101
18	EHS		505 March Road Ottawa ON	S/89.5	0.95	101
18	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	S/89.5	0.95	101
18	SCT	Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	S/89.5	0.95	101
18	SPL	Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	S/89.5	0.95	102
19	CA	MKB RESTAURANTS (CS) LIMITED	700 MARCH ROAD KANATA CITY ON K2K 2V9	NW/90.9	-1.05	102
19	GEN	RAJANS PHARMACIES LTD.	700 MARCH ROAD KANATA ON K2K 2V9	NW/90.9	-1.05	102
19	SCT	Amika Mobile Corporation	700 March Rd Suite 203 Kanata ON K2K 2V9	NW/90.9	-1.05	103
19	GEN	Kanata North Medical Centre	700 March Rd Kanata ON K2K 2V9	NW/90.9	-1.05	103
20	WWIS		lot 9 con 3 ON	WSW/93.9	2.95	103

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1503344			
21	BORE		ON	W/95.8	2.99	106
22	SCT	NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	NE/99.2	-1.99	107
22	SCT	NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	NE/99.2	-1.99	107
22	SCT	March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	NE/99.2	-1.99	108
22	GEN	TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	NE/99.2	-1.99	108
22	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	NE/99.2	-1.99	109
22	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	NE/99.2	-1.99	109
22	SCT	March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	NE/99.2	-1.99	109
22	SCT	March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	NE/99.2	-1.99	109
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	110
22	SCT	Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	NE/99.2	-1.99	110
22	GEN	March Networks	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	111
22	CA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON	NE/99.2	-1.99	112

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
22	SCT	Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	NE/99.2	-1.99	112
22	SCT	Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	NE/99.2	-1.99	112
22	SCT	Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	NE/99.2	-1.99	112
22	SCT	Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	NE/99.2	-1.99	113
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	113
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	114
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	115
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	116
22	NPRI	KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	NE/99.2	-1.99	116
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	119
22	EHS		555 Legget Dr Ottawa ON K2K2X3	NE/99.2	-1.99	120
22	EHS		555 Legget Dr Ottawa ON K2K2X3	NE/99.2	-1.99	120
22	ECA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	120

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
22	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	120
22	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	121
22	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	122
22	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	123
22	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	124
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	125
22	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	125
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	126
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	126
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	126
23	SCT	Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	SSE/106.7	-1.14	126
23	GEN	KRP Properties	40 Hines Road Ottawa ON K2K 2M5	SSE/106.7	-1.14	127
24	SCT	Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	E/107.7	-3.19	127

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
24	SCT	Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	E/107.7	-3.19	127
24	SPL	Kanata Research Park Corporation	515 Legget drive Ottawa ON	E/107.7	-3.19	127
24	CA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON	E/107.7	-3.19	128
24	SCT	Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	E/107.7	-3.19	128
24	HINC		515 LEGGET DRIVE KANATA ON	E/107.7	-3.19	128
24	EHS		515 Legget Drive Ottawa ON	E/107.7	-3.19	129
24	NPRI	KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	E/107.7	-3.19	129
24	EHS		515 Legget Dr Ottawa ON K2K3G4	E/107.7	-3.19	131
24	ECA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	E/107.7	-3.19	132
25	EHS		525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	ENE/119.0	-4.75	132
25	ECA	Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	ENE/119.0	-4.75	132
26	EHS		70 Hines Rd. Kanata ON K2K 2M5	SSW/119.6	1.95	132
26	CA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON	SSW/119.6	1.95	133

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	ECA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	SSW/119.6	1.95	133
26	SPL	Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	SSW/119.6	1.95	133
27	EHS		80 Hines Road n/a ON K2K 2T8	SSW/119.7	2.67	134
27	GEN	AMCC	80 Hines Rd. Kanata ON K2K 2T8	SSW/119.7	2.67	134
28	SCT	ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	WSW/121.8	2.99	134
28	SCT	TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	Localcity	555 March Rd Kanata ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	Local City Inc.	555 March Rd Kanata ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	WSW/121.8	2.99	136
28	EHS		555 March Road Ottawa (Kanata) ON	WSW/121.8	2.99	136
29	CA	NEWBRIDGE NETWORKS CORP. - 8-4051-90	603 MARCH ROAD (8-4053-90) KANATA CITY ON K2K 2M5	W/135.6	2.88	136
29	CA	NEWBRIDGE NETWORKS CORP. 8-4052-90	603 MARCH ROAD KANATA CITY ON K2K 2M5	W/135.6	2.88	137

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
29	CA	NEWBRIDGE NETWORKS CORP. - 8-4053-90	603 MARCH ROAD (8-4051-90) KANATA CITY ON K2K 2M5	W/135.6	2.88	137
29	CA	NEWBRIDGE NETWORKS CORP. - 8-4052-90	603 MARCH ROAD (8-4054-90) KANATA CITY ON K2K 2M5	W/135.6	2.88	137
29	SCT	TUNDRA SEMICONDUCTORS CORPORAT	603 MARCH RD KANATA ON K2K 2M5	W/135.6	2.88	138
29	SCT	Tundra Semiconductor Corp	603 March Rd Kanata ON K2K 2M5	W/135.6	2.88	138
29	CA		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	138
29	GEN	TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	138
29	GEN	TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	139
29	GEN	TRILLIUM TELEPHONE SYSTEMS INC. 38-102	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	139
29	GEN	TRILLIUM TELEPHONE (OUT OF BUS)	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	139
29	GEN	NEWBRIDGE NETWORKS CORPORATION 28-807	603 MARCH ROAD C/O 600 MARCH RD., P.O.BOX 13600 KANATA ON K2K 2M5	W/135.6	2.88	140
29	GEN	Tundra Semiconductor Corporation	603 March Road Kanata ON K2K 2M5	W/135.6	2.88	140
29	SCT	IDT Canada	603 March Rd Kanata ON K2K 2M5	W/135.6	2.88	140
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	140

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	141
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	141
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	141
29	EHS		603 March Rd Kanata ON K2K 2M5	W/135.6	2.88	141
30	ECA	D.I.R. Investments Inc.	Ottawa ON K0A 1A0	WSW/141.1	3.80	141
31	GEN	Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	ESE/152.1	-4.05	142
32	SCT	EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	S/155.3	0.95	142
32	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	S/155.3	0.95	142
32	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	S/155.3	0.95	143
32	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	S/155.3	0.95	143
32	SCT	DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	S/155.3	0.95	143
32	SCT	WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	S/155.3	0.95	143
32	EBR	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	S/155.3	0.95	144

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	SCT	Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	S/155.3	0.95	144
32	SCT	OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	S/155.3	0.95	144
32	EBR	Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	S/155.3	0.95	145
32	CA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	S/155.3	0.95	145
32	CA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	S/155.3	0.95	145
32	SCT	Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	S/155.3	0.95	146
32	GEN	GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	S/155.3	0.95	146
32	ECA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	S/155.3	0.95	146
32	ECA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	S/155.3	0.95	147
33	EHS		595 March Road, Block E Kanata ON	W/165.4	3.02	147
34	SCT	TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	SSW/169.0	2.92	147
34	GEN	Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	SSW/169.0	2.92	147
34	SCT	Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	SSW/169.0	2.92	148

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
34	GEN	Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	SSW/169.0	2.92	148
34	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	SSW/169.0	2.92	148
34	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	SSW/169.0	2.92	149
34	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	SSW/169.0	2.92	149
35	SCT	INSTANTEL INC.	362 TERRY FOX DR KANATA ON K2K 2P5	NNE/169.3	-6.50	149
35	SCT	Coyle Publishing Inc.	362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	NNE/169.3	-6.50	150
36	CA	WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	SW/173.5	3.95	150
36	SCT	Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SW/173.5	3.95	150
36	SCT	Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SW/173.5	3.95	150
36	GEN	Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	SW/173.5	3.95	151
36	SCT	Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	SW/173.5	3.95	151
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON	SW/173.5	3.95	151
36	SCT	Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	SW/173.5	3.95	152

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	SW/173.5	3.95	152
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	SW/173.5	3.95	153
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	SW/173.5	3.95	153
36	GEN	ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	SW/173.5	3.95	154
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	SW/173.5	3.95	154
37	GEN	Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	SW/173.7	3.95	155
37	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	SW/173.7	3.95	155
37	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	SW/173.7	3.95	156
38	WWIS		591 MARCH ROAD lot 9 con 3 KANATA ON ***Well ID:*** 7151742	WSW/179.6	3.89	157
39	BORE		ON	SSE/189.5	-1.02	160
40	WWIS		lot 8 con 3 ON ***Well ID:*** 1503343	SSE/189.6	-1.02	161
41	WWIS		3001 SOLANDT RD. KANATA ON ***Well ID:*** 7296271	SE/191.0	-2.36	164
42	EHS		706, 710, and 714 March Road Ottawa ON K2K 2R9	NW/196.1	-1.02	172

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	EHS		710 March Road Kanata ON K2K 2V9	NW/199.2	-1.11	172
44	EHS		495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K	S/200.0	0.25	172
45	SCT	VOLEX CAPULUM INC.	360 TERRY FOX DR KANATA ON K2K 2P5	NNE/202.7	-8.05	173
45	SCT	VOLEX CANADA INC.	360 Terry Fox Dr Kanata ON K2K 2P5	NNE/202.7	-8.05	173
45	SCT	Sciemetric Instruments Inc	360 Terry Fox Dr Kanata ON K2K 2P5	NNE/202.7	-8.05	173
45	CA	Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON	NNE/202.7	-8.05	174
45	SCT	Filtran Limited	360 Terry Fox Dr Kanata ON K2K 2P5	NNE/202.7	-8.05	174
45	SCT	Emcon Emanation Control Ltd.	360 Terry Fox Dr Nepean ON K2E	NNE/202.7	-8.05	174
45	EBR	Filtran Limited	360 Terry Fox Drive Ottawa CITY OF OTTAWA ON	NNE/202.7	-8.05	175
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	175
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	175
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	176

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON	NNE/202.7	-8.05	176
45	ECA	Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON K2K 2X3	NNE/202.7	-8.05	177
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	177
45	GEN	Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
45	EHS		360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
45	GEN	Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
45	GEN	Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
46	CA	NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7	NE/207.8	-6.07	179
46	SCT	ELCOMBE SYSTEMS LIMITED	359 TERRY FOX DR KANATA ON K2K 2E7	NE/207.8	-6.07	179
46	CA		359 Terry Fox Drive Kanata ON K2K 2E7	NE/207.8	-6.07	179
46	GEN	NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA ON K2K 2E7	NE/207.8	-6.07	179
46	GEN	NEWBRIDGE NETWORKS CORPORATION 28-523	359 TERRY FOX DRIVE KANATA ON K2K 2E7	NE/207.8	-6.07	180
46	EHS		359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	180

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
46	EBR	Smart Technologies Inc.	359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	NE/207.8	-6.07	180
46	EHS		359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	181
46	GEN	Smart Technologies Inc	359 Terry Fox Drive - North Kanata ON	NE/207.8	-6.07	181
46	CA	Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	182
46	CA	Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	182
46	SCT	Sciemetric Instruments Inc.	359 Terry Fox Dr Kanata ON K2K 2E7	NE/207.8	-6.07	182
46	SCT	Pleora Technologies Inc.	359 Terry Fox Dr Unit 230 Kanata ON K2K 2E7	NE/207.8	-6.07	183
46	ECA	Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON K2K 2E7	NE/207.8	-6.07	183
46	ECA	Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON K2K 2X3	NE/207.8	-6.07	183
46	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NE/207.8	-6.07	184
46	GEN	Public Health Agency of Canada - Kanata	359 Terry Fox Drive Kanata ON K2K2E7	NE/207.8	-6.07	184
46	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NE/207.8	-6.07	184
46	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NE/207.8	-6.07	185

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
46	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NE/207.8	-6.07	185
46	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NE/207.8	-6.07	186
47	SCT	SR TELECOM	425 LEGGET DR KANATA ON K2K 2W2	ESE/209.2	-2.94	186
47	EHS		425 Legget Dr Kanata ON K2K 2W2	ESE/209.2	-2.94	186
47	GEN	SR TELECOM INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	ESE/209.2	-2.94	187
47	GEN	C-MAC KANATA INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	ESE/209.2	-2.94	187
47	GEN	C-MAC KANATA INC.	425 LEGETT DRIVE KANATA ON K2K 2W2	ESE/209.2	-2.94	187
47	GEN	C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY	425 LEGETT DRIVE KANATA ON	ESE/209.2	-2.94	188
47	SCT	Solectron EMS Canada	425 Legget Dr Kanata ON K2K 2W2	ESE/209.2	-2.94	189
47	EHS		425 Legget Drive Ottawa ON	ESE/209.2	-2.94	189
47	EASR	AVAYA CANADA CORP	425 LEGGET DRIVE OTTAWA ON K2K 2W2	ESE/209.2	-2.94	189
47	ECA	425 Legget Drive Property GP Inc.	425 Legget Dr Ottawa ON	ESE/209.2	-2.94	189
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190
48	BORE		ON	W/216.8	3.86	190
49	WWIS		lot 9 con 3 ON ***Well ID:*** 1503346	W/216.8	3.86	192
50	CA	COLONNADE DEVELOPMENT INC.	60 HINES RD., PH. 1, SWM KANATA ON K2K 2M5	SSW/217.9	1.98	194
50	CA	COLONNADE DEVELOPMENT INC.	SWM-60 HINES RD.PH.2 KANATA ON K2K 2M5	SSW/217.9	1.98	194
51	EHS		370-450 Huntmar Drive Ottawa ON	ESE/219.5	-2.97	195
52	CA	LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	SE/235.2	-2.08	195
52	CA	LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	SE/235.2	-2.08	195
52	SCT	LOCKHEED MARTIN CANADA INC	3001 SOLANDT RD KANATA ON K2K 2M8	SE/235.2	-2.08	195
52	SCT	Lockheed Martin Canada Inc.	3001 Solandt Rd Kanata ON K2K 2M8	SE/235.2	-2.08	196
52	CA		3001 Solandt Road Kanata ON K2K 2M8	SE/235.2	-2.08	196

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	196
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	197
52	EBR	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON K2K 2M8	SE/235.2	-2.08	198
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	198
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	199
52	GEN	MORGUARD INVESTMENTS LTD.	3001 SOLANDT STREET KANATA ON	SE/235.2	-2.08	200
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	200
52	EBR	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	SE/235.2	-2.08	201
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON	SE/235.2	-2.08	201
52	EHS		3001 Solandt Road Kanata ON	SE/235.2	-2.08	201
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON	SE/235.2	-2.08	202
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	SE/235.2	-2.08	202
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Road Kanata ON K2K 2M8	SE/235.2	-2.08	203

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	SE/235.2	-2.08	203
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	203
52	GEN	Morguard Investments	3001 Solandt Rd Kanata ON K2K 3M8	SE/235.2	-2.08	204
53	WWIS		O HINES DRIVE KANATA ON ***Well ID:*** 7218163	W/243.3	4.95	204
54	CA		495 March Road Kanata ON K2K 3G1	SSE/244.3	-1.14	208
54	SCT	Dinmar Consulting Inc.	495 March Rd Suite 400 Kanata ON K2K 3G1	SSE/244.3	-1.14	208
54	SCT	Halogen Software	495 March Rd Suite 500 Ottawa ON K2K 3G1	SSE/244.3	-1.14	209
54	CA	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON	SSE/244.3	-1.14	209
54	SCT	OneChip Photonics Inc.	495 March Rd Suite 200 Kanata ON K2K 3G1	SSE/244.3	-1.14	209
54	SCT	Halogen Software	495 March Rd Suite 500 Kanata ON K2K 3G1	SSE/244.3	-1.14	210
54	EHS		495 March Rd Ottawa ON K2K3G1	SSE/244.3	-1.14	210
54	ECA	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON K2K 3G1	SSE/244.3	-1.14	210
54	ECA	E-Cruiter.com Inc.	495 March Road Kanata ON K2K 3G1	SSE/244.3	-1.14	210

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
55	FSTH	964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	211
55	SPL		21777 SHELL GAS STATION 720 MARCH ROAD, KANATA, ON K2L 1A1<UNOFFICIAL> Ottawa ON K2L 1A1	WNW/247.1	-1.05	211
55	FSTH	964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	212
55	CA	Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON	WNW/247.1	-1.05	212
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	213
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	213
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	214
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	214
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	215
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	215
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	216
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	216
55	SPL	Shell Station<UNOFFICIAL>	720 March Rd Ottawa ON	WNW/247.1	-1.05	216

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
55	ECA	Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON M2N 6Y2	WNW/247.1	-1.05	216
55	FST	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	216
55	FST		720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	217
55	FST	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	217
55	FST	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	218

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	95.8	21
	ON	189.5	39
	ON	216.8	48

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 30 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
MINTO DEVELOPMENTS INC.	LEGGET DR/TERRY FOX DR/SOLANDT KANATA CITY ON	12.8	5
TAYSHAM INVESTORS INC.	MARCH ROAD, TERRY FOX DR. KANATA CITY ON	23.7	6
KANATA RESEARCH PARK CORP.	TERRY FOX DR. MARCH RD. KANATA CITY ON	23.7	6
Nortel Networks Corporation	535 Legget Drive Ottawa ON	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON	60.0	10

Site	Address	Distance (m)	Map Key
MKB RESTAURANTS (CS) LIMITED	700 MARCH ROAD KANATA CITY ON K2K 2V9	90.9	19
Kanata Research Park Corporation	555 Legget Drive Ottawa ON	99.2	22
Kanata Research Park Corporation	515 Legget Drive Ottawa ON	107.7	24
2117547 Ontario Inc.	70 Hines Rd Ottawa ON	119.6	26
NEWBRIDGE NETWORKS CORP. - 8-4051-90	603 MARCH ROAD (8-4053-90) KANATA CITY ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORP. 8-4052-90	603 MARCH ROAD KANATA CITY ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORP. - 8-4053-90	603 MARCH ROAD (8-4051-90) KANATA CITY ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORP. - 8-4052-90	603 MARCH ROAD (8-4054-90) KANATA CITY ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	155.3	32
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	155.3	32

Site	Address	Distance (m)	Map Key
WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	173.5	36
Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON	202.7	45
NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7	207.8	46
	359 Terry Fox Drive Kanata ON K2K 2E7	207.8	46
Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON	207.8	46
Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON	207.8	46
COLONNADE DEVELOPMENT INC.	60 HINES RD., PH. 1, SWM KANATA ON K2K 2M5	217.9	50
COLONNADE DEVELOPMENT INC.	SWM-60 HINES RD.PH.2 KANATA ON K2K 2M5	217.9	50
LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	235.2	52
LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	235.2	52
	3001 Solandt Road Kanata ON K2K 2M8	235.2	52
	495 March Road Kanata ON K2K 3G1	244.3	54

Site	Address	Distance (m)	Map Key
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON	244.3	54
Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON	247.1	55

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated May 31, 2021 has found that there are 4 DTNK site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA ON K2K 2R9	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Nov 30, 2021 has found that there are 3 EASR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SCI BROCKVILLE CORP.	528 MARCH KANATA ON	81.4	16
SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	81.4	16

Site	Address	Distance (m)	Map Key
AVAYA CANADA CORP	425 LEGGET DRIVE OTTAWA ON K2K 2W2	209.2	47

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Dec 31, 2021 has found that there are 6 EBR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	155.3	32
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	155.3	32
Filtran Limited	360 Terry Fox Drive Ottawa CITY OF OTTAWA ON	202.7	45
Smart Technologies Inc.	359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	207.8	46
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON K2K 2M8	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	235.2	52

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Nov 30, 2021 has found that there are 25 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10

Site	Address	Distance (m)	Map Key
Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10
Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	70.7	12
Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	81.0	15
Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	107.7	24
Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	119.0	25
2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	119.6	26
D.I.R. Investments Inc.	Ottawa ON K0A 1A0	141.1	30

Site	Address	Distance (m)	Map Key
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	155.3	32
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	155.3	32
Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON K2K 2X3	202.7	45
Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON K2K 2E7	207.8	46
Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON K2K 2X3	207.8	46
425 Legget Drive Property GP Inc.	425 Legget Dr Ottawa ON	209.2	47
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Road Kanata ON K2K 2M8	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	235.2	52
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON K2K 3G1	244.3	54
E-Cruiter.com Inc.	495 March Road Kanata ON K2K 3G1	244.3	54

Site	Address	Distance (m)	Map Key
Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON M2N 6Y2	247.1	55

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 46 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	60.0	10
	700 March Road Ottawa ON	69.7	11

Site	Address	Distance (m)	Map Key
	510-528 March Road Kanata ON	81.4	16
	528 March Road Ottawa ON	81.4	16
	591 March Road Kanata ON K2K 2M5	89.1	17
	591 March Rd Ottawa ON K2K2M5	89.1	17
	505 March Road Ottawa ON	89.5	18
	555 Legget Dr Ottawa ON K2K2X3	99.2	22
	555 Legget Dr Ottawa ON K2K2X3	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	515 Legget Drive Ottawa ON	107.7	24

Site	Address	Distance (m)	Map Key
	515 Legget Dr Ottawa ON K2K3G4	107.7	24
	525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	119.0	25
	70 Hines Rd. Kanata ON K2K 2M5	119.6	26
	80 Hines Road n/a ON K2K 2T8	119.7	27
	555 March Road Ottawa (Kanata) ON	121.8	28
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Rd Kanata ON K2K 2M5	135.6	29
	595 March Road, Block E Kanata ON	165.4	33

Site	Address	Distance (m)	Map Key
	706, 710, and 714 March Road Ottawa ON K2K 2R9	196.1	42
	710 March Road Kanata ON K2K 2V9	199.2	43
	495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K	200.0	44
	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45
	359 Terry Fox Drive Ottawa ON	207.8	46
	359 Terry Fox Drive Ottawa ON	207.8	46
	425 Legget Dr Kanata ON K2K 2W2	209.2	47
	425 Legget Drive Ottawa ON	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47

Site	Address	Distance (m)	Map Key
	370-450 Huntmar Drive Ottawa ON	219.5	51
	3001 Solandt Road Kanata ON	235.2	52
	495 March Rd Ottawa ON K2K3G1	244.3	54

FST - Fuel Storage Tank

A search of the FST database, dated May 31, 2021 has found that there are 8 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
	720 MARCH RD KANATA ON K2K 2R9	247.1	55

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	247.1	55
964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	247.1	55

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 107 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2

Site	Address	Distance (m)	Map Key
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	2.0	3
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	2.5	4
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7

Site	Address	Distance (m)	Map Key
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	81.0	15
MILLER'S QUALITY DRY CLEANERS	591 MARCH ROAD KANATA ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17

Site	Address	Distance (m)	Map Key
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
RAJANS PHARMACIES LTD.	700 MARCH ROAD KANATA ON K2K 2V9	90.9	19
Kanata North Medical Centre	700 March Rd Kanata ON K2K 2V9	90.9	19
TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	99.2	22
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	99.2	22
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
March Networks	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22

Site	Address	Distance (m)	Map Key
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties	40 Hines Road Ottawa ON K2K 2M5	106.7	23

Site	Address	Distance (m)	Map Key
AMCC	80 Hines Rd. Kanata ON K2K 2T8	119.7	27
TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
TRILLIUM TELEPHONE SYSTEMS INC. 38-102	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
TRILLIUM TELEPHONE (OUT OF BUS)	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORPORATION 28-807	603 MARCH ROAD C/O 600 MARCH RD., P. O.BOX 13600 KANATA ON K2K 2M5	135.6	29
Tundra Semiconductor Corporation	603 March Road Kanata ON K2K 2M5	135.6	29
Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	152.1	31
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	155.3	32
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	155.3	32
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	155.3	32
GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	155.3	32

Site	Address	Distance (m)	Map Key
Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	169.0	34
Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	169.0	34
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	169.0	34
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	169.0	34
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	169.0	34
Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	173.5	36
ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	173.5	36

Site	Address	Distance (m)	Map Key
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	173.5	36
Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	173.7	37
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	173.7	37
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	173.7	37
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45
Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45
Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45

Site	Address	Distance (m)	Map Key
NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA ON K2K 2E7	207.8	46
NEWBRIDGE NETWORKS CORPORATION 28-523	359 TERRY FOX DRIVE KANATA ON K2K 2E7	207.8	46
Smart Technologies Inc	359 Terry Fox Drive - North Kanata ON	207.8	46
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	207.8	46
Public Health Agency of Canada - Kanata	359 Terry Fox Drive Kanata ON K2K2E7	207.8	46
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	207.8	46
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	207.8	46
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	207.8	46
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	207.8	46
SR TELECOM INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	209.2	47
C-MAC KANATA INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	209.2	47

Site	Address	Distance (m)	Map Key
C-MAC KANATA INC.	425 LEGETT DRIVE KANATA ON K2K 2W2	209.2	47
C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY	425 LEGETT DRIVE KANATA ON	209.2	47
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
MORGUARD INVESTMENTS LTD.	3001 SOLANDT STREET KANATA ON	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
Morguard Investments	3001 Solandt Rd Kanata ON K2K 3M8	235.2	52

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	515 LEGGET DRIVE KANATA ON	107.7	24

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 3 NPRI site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	60.0	10
KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	99.2	22
KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	107.7	24

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 66 SCT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	0.0	1
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	0.0	1
Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	0.0	1

Site	Address	Distance (m)	Map Key
Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	0.0	1
Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	60.0	10
PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	60.0	10
Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	60.0	10
CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	78.4	14
Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	78.4	14
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	89.5	18
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	89.5	18
Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	89.5	18
Amika Mobile Corporation	700 March Rd Suite 203 Kanata ON K2K 2V9	90.9	19
NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	99.2	22
NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	99.2	22

Site	Address	Distance (m)	Map Key
March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	99.2	22
March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	99.2	22
March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	99.2	22
Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	99.2	22
Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	99.2	22
Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	99.2	22
Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	99.2	22
Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	99.2	22
Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	106.7	23
Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	107.7	24
Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	107.7	24

Site	Address	Distance (m)	Map Key
Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	107.7	24
ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	121.8	28
TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	121.8	28
Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	121.8	28
Localcity	555 March Rd Kanata ON K2K 2M5	121.8	28
Local City Inc.	555 March Rd Kanata ON K2K 2M5	121.8	28
ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	121.8	28
TUNDRA SEMICONDUCTORS CORPORAT	603 MARCH RD KANATA ON K2K 2M5	135.6	29
Tundra Semiconductor Corp	603 March Rd Kanata ON K2K 2M5	135.6	29
IDT Canada	603 March Rd Kanata ON K2K 2M5	135.6	29
WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	155.3	32
Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	155.3	32

Site	Address	Distance (m)	Map Key
OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	155.3	32
Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	155.3	32
EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	155.3	32
DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	155.3	32
TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	169.0	34
Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	169.0	34
INSTANTEL INC.	362 TERRY FOX DR KANATA ON K2K 2P5	169.3	35
Coyle Publishing Inc.	362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	169.3	35
Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	173.5	36
Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	173.5	36
Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	173.5	36

Site	Address	Distance (m)	Map Key
Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	173.5	36
VOLEX CAPULUM INC.	360 TERRY FOX DR KANATA ON K2K 2P5	202.7	45
VOLEX CANADA INC.	360 Terry Fox Dr Kanata ON K2K 2P5	202.7	45
Sciemetric Instruments Inc	360 Terry Fox Dr Kanata ON K2K 2P5	202.7	45
Filtran Limited	360 Terry Fox Dr Kanata ON K2K 2P5	202.7	45
Emcon Emanation Control Ltd.	360 Terry Fox Dr Nepean ON K2E	202.7	45
ELCOMBE SYSTEMS LIMITED	359 TERRY FOX DR KANATA ON K2K 2E7	207.8	46
Sciemetric Instruments Inc.	359 Terry Fox Dr Kanata ON K2K 2E7	207.8	46
Pleora Technologies Inc.	359 Terry Fox Dr Unit 230 Kanata ON K2K 2E7	207.8	46
SR TELECOM	425 LEGGET DR KANATA ON K2K 2W2	209.2	47
Solectron EMS Canada	425 Legget Dr Kanata ON K2K 2W2	209.2	47
LOCKHEED MARTIN CANADA INC	3001 SOLANDT RD KANATA ON K2K 2M8	235.2	52

Site	Address	Distance (m)	Map Key
Lockheed Martin Canada Inc.	3001 Solandt Rd Kanata ON K2K 2M8	235.2	52
Dinmar Consulting Inc.	495 March Rd Suite 400 Kanata ON K2K 3G1	244.3	54
Halogen Software	495 March Rd Suite 500 Ottawa ON K2K 3G1	244.3	54
OneChip Photonics Inc.	495 March Rd Suite 200 Kanata ON K2K 3G1	244.3	54
Halogen Software	495 March Rd Suite 500 Kanata ON K2K 3G1	244.3	54

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020 has found that there are 6 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Terry Fox and March Rd Ottawa ON	23.7	6
Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	89.5	18
Kanata Research Park Corporation	515 Legget drive Ottawa ON	107.7	24
Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	119.6	26

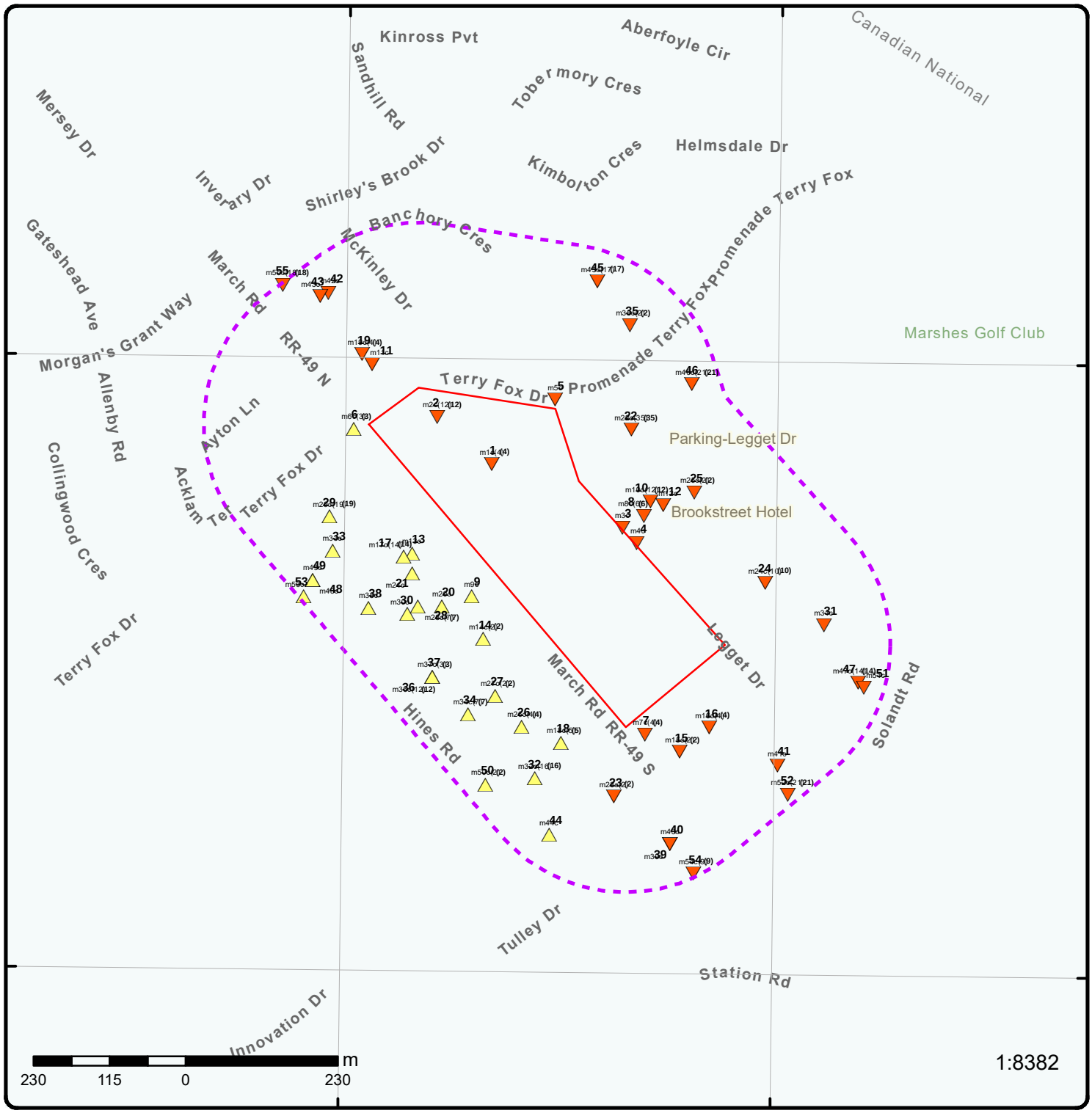
Site	Address	Distance (m)	Map Key
	21777 SHELL GAS STATION 720 MARCH ROAD, KANATA, ON K2L 1A1<UNOFFICIAL> Ottawa ON K2L 1A1	247.1	55
Shell Station<UNOFFICIAL>	720 March Rd Ottawa ON	247.1	55

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 9 con 3 ON ***Well ID:*** 1503345	49.9	9
	lot 9 con 3 ON ***Well ID:*** 1510215	76.5	13
	lot 9 con 3 ON ***Well ID:*** 1503344	93.9	20
	591 MARCH ROAD lot 9 con 3 KANATA ON ***Well ID:*** 7151742	179.6	38
	lot 8 con 3 ON ***Well ID:*** 1503343	189.6	40
	3001 SOLANDT RD. KANATA ON ***Well ID:*** 7296271	191.0	41
	lot 9 con 3 ON ***Well ID:*** 1503346	216.8	49
	O HINES DRIVE KANATA ON	243.3	53

Site	Address	Distance (m)	Map Key
	Well ID: 7218163		



Map: 0.25 Kilometer Radius

Order Number: 22010600440

Address: 600 March Road, Kanata, ON

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

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

75°55'30"W

45°21'N



45°21'N

Aerial

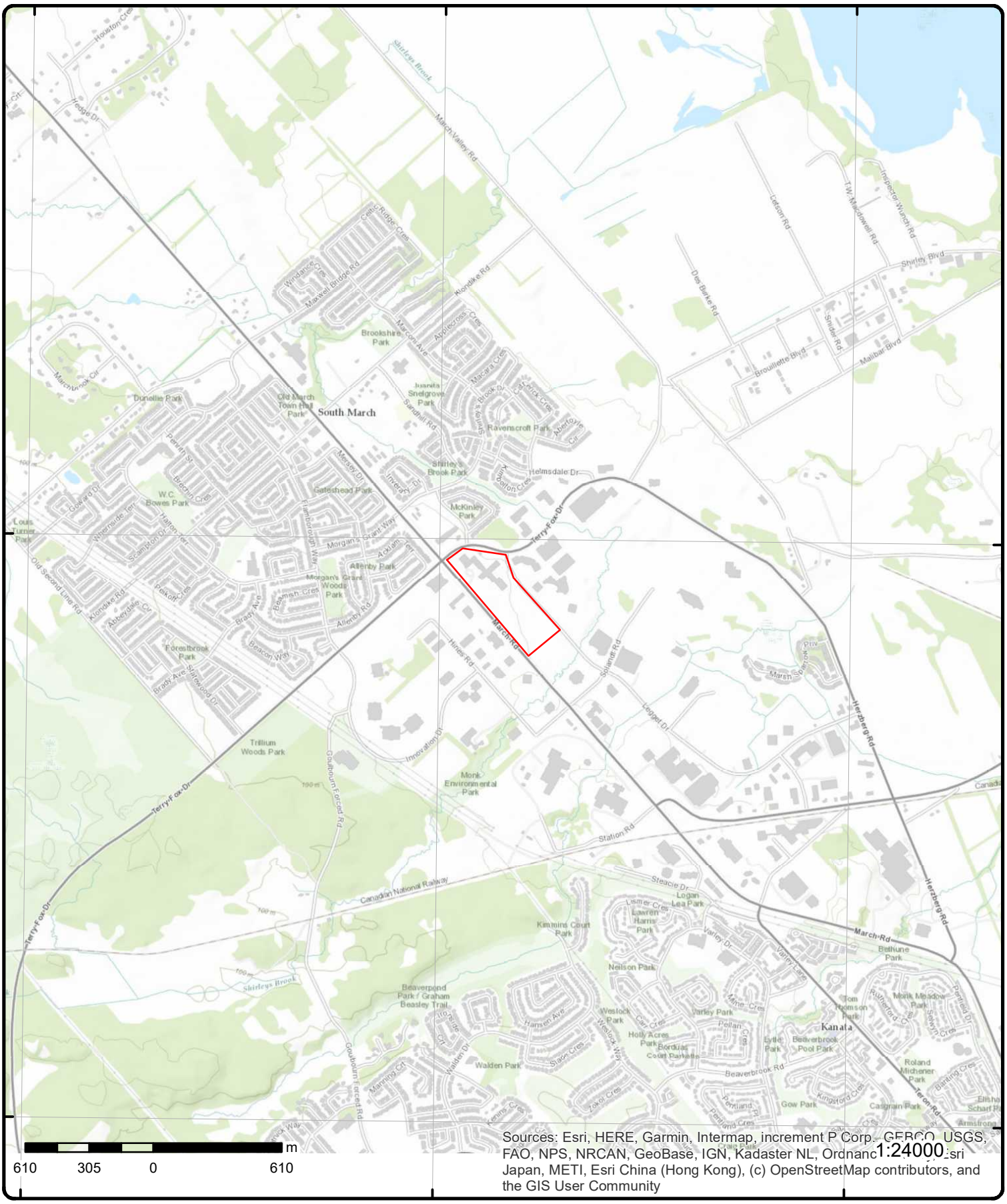
Year: 2020

Order Number: 22010600440

Address: 600 March Road, Kanata, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 600 March Road, ON

Source: ESRI World Topographic Map

Order Number: 22010600440

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 4	NW/0.0	81.9 / -0.02	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2E6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 3000

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 4	NW/0.0	81.9 / -0.02	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 1800

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 4	NW/0.0	81.9 / -0.02	Alcatel Canada Inc. 600 March Rd Kanata ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 000

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	4 of 4	NW/0.0	81.9 / -0.02	Alcatel-Lucent Canada Inc. 600 March Rd Kanata ON K2K 2T6	SCT

Established: 01-JUN-86
Plant Size (ft²): 95000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 12	NW/0.0	81.9 / -0.05	ALCATEL CANADA INC. 600 MARCH ROAD KANATA ON K2K 2E6	GEN

Generator No: ON0044812
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 12	NW/0.0	81.9 / -0.05	ALCATEL CANADA INC. 600 March Road Kanata ON K2K 2T6	GEN

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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2 **3 of 12** **NW/0.0** **81.9 / -0.05** **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2T6 **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2010
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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2 **4 of 12** **NW/0.0** **81.9 / -0.05** **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2T6 **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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2 **5 of 12** **NW/0.0** **81.9 / -0.05** **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2T6 **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2012
PO Box No:
Country:

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

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

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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2 ***6 of 12*** ***NW/0.0*** ***81.9 / -0.05*** ***ALCATEL CANADA INC.*** ***GEN***
600 March Road
Kanata ON

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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2 ***7 of 12*** ***NW/0.0*** ***81.9 / -0.05*** ***NOKIA CANADA*** ***GEN***
600 March Road
Kanata ON K2K 2E6

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL

Approval Years:	2016	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS

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2 ***8 of 12*** ***NW/0.0*** ***81.9 / -0.05*** ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2E6 ***GEN***

Generator No:	ON0044812	**Status:**	
SIC Code:	513390	**Co Admin:**	
SIC Description:	OTHER TELECOMMUNICATIONS	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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2 | ***9 of 12*** | ***NW/0.0*** | ***81.9 / -0.05*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2E6 | ***GEN***

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2014
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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2 | **10 of 12** | **NW/0.0** | **81.9 / -0.05** | **NOKIA CANADA**
600 March Road
Kanata ON K2K 2E6 | **GEN**

Generator No: ON0044812
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

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

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

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	11 of 12	NW/0.0	81.9 / -0.05	NOKIA CANADA 600 March Road Kanata ON K2K 2E6	GEN

Generator No:	ON0044812	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jul 2020	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	242 A
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	146 R
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	112 C
Waste Class Desc:	Acid solutions - containing heavy metals
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	121 C
Waste Class Desc:	Alkaline slutions - containing heavy metals
Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	148 B
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	12 of 12	NW/0.0	81.9 / -0.05	NOKIA CANADA 600 March Road Kanata ON K2K 2E6	GEN

Generator No:	ON0044812	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jan 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	146 R
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates
Waste Class:	112 C
Waste Class Desc:	Acid solutions - containing heavy metals
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	148 B
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	242 A
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	121 C
Waste Class Desc:	Alkaline slutions - containing heavy metals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	E/2.0	79.8 / -2.14	**Intel of Canada, Ltd.** **535 Legget Drive Suite 206** **Kanata ON K2K 3B8**	GEN

Generator No:	ON6268256	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Nov 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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4 | ***1 of 1*** | ***E/2.5*** | ***79.9 / -2.05*** | ***La Vie Medial Inc.***
525 Legget Dr. Suite 150
Kanata ON K2K2W2 | ***GEN***

Generator No: ON8874529
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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5 | ***1 of 1*** | ***N/12.8*** | ***79.9 / -1.99*** | ***MINTO DEVELOPMENTS INC.***
LEGGET DR/TERRY FOX DR/SOLANDT
KANATA CITY ON | ***CA***

Certificate #: 3-0976-95-
Application Year: 95
Issue Date: 7/20/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

6 | ***1 of 3*** | ***WNW/23.7*** | ***83.0 / 1.03*** | ***KANATA RESEARCH PARK CORP.***
TERRY FOX DR. MARCH RD.
KANATA CITY ON | ***CA***

Certificate #: 3-1115-87-
Application Year: 87
Issue Date: 7/13/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:

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

Contaminants:
Emission Control:

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6 | ***2 of 3*** | ***WNW/23.7*** | ***83.0 / 1.03*** | ***TAYSHAM INVESTORS INC.***
MARCH ROAD, TERRY FOX DR.
KANATA CITY ON | ***CA***

Certificate #: 7-1085-88-
Application Year: 88
Issue Date: 7/18/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

6 | ***3 of 3*** | ***WNW/23.7*** | ***83.0 / 1.03*** | ***Terry Fox and March Rd***
Ottawa ON | ***SPL***

Ref No: 2401-88VMDH
Site No:
Incident Dt:
Year:
Incident Cause:
Incident Event:
Contaminant Code: 15
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/1/2010
Dt Document Closed:
Incident Reason:
Site Name: Terry Fox Extension<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: 30 L's of Engine Oil to Terry Fox Rd Extension - Kanata.
Contaminant Qty: 30 L

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

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7 | ***1 of 4*** | ***SE/27.8*** | ***80.9 / -1.05*** | ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 | ***GEN***

Generator No: ON5466737
SIC Code: 334410
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING
Approval Years: 2016
PO Box No:

Status:
Co Admin: Emma Mason
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-886-6192 Ext.
Contam. Facility: No

Country: Canada ***MHSW Facility:*** No

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

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

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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7 ***2 of 4*** ***SE/27.8*** ***80.9 / -1.05*** ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 ***GEN***

Generator No: ON5466737 ***Status:***
SIC Code: 334410 ***Co Admin:*** Jessica Major
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING ***Choice of Contact:*** CO_OFFICIAL
Approval Years: 2015 ***Phone No Admin:*** 613-886-6328 Ext.
PO Box No: ***Contam. Facility:*** No
Country: Canada ***MHSW Facility:*** No

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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7 | **3 of 4** | **SE/27.8** | **80.9 / -1.05** | **Sanmina Corporation**
500 March Road
Ottawa ON K2K 0J9 | **GEN**

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

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

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 262 T
Waste Class Desc: Detergents and soaps

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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7 | **4 of 4** | **SE/27.8** | **80.9 / -1.05** | **Sanmina Corporation**
500 March Road
Ottawa ON K2K 0J9 | **GEN**

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

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

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 262 T
Waste Class Desc: Detergents and soaps

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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8 | **1 of 6** | **ENE/38.7** | **79.9 / -1.99** | **535 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20200513064
Status: C
Report Type: Standard Report
Report Date: 19-MAY-20
Date Received: 13-MAY-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9192125
Y: 45.3478896

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8 | **2 of 6** | **ENE/38.7** | **79.9 / -1.99** | **535 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20200513064
Status: C

Nearest Intersection:
Municipality:

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

Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	3 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	4 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	5 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	6 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1	WSW/49.9	83.8 / 1.92	lot 9 con 3 ON	WWIS

Well ID:	1503345	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	12/1/1952
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	009
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503345.pdf

Additional Detail(s) (Map)

Well Completed Date:	1952/11/20
Year Completed:	1952
Depth (m):	12.192
Latitude:	45.3467679412808
Longitude:	-75.9225283767252
Path:	150\1503345.pdf

Bore Hole Information

Bore Hole ID:	10025388	***Elevation:***	80.863845
DP2BR:	5.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	427730.60
Code OB Desc:	Bedrock	***North83:***	5021887.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	20-Nov-1952 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996631
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996630
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503345
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573958
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043529
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043528
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 9
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

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

Results of Well Yield Testing

Pump Test ID:	991503345
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456239
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	38.0
Water Found Depth UOM:	ft

10	***1 of 12***	***ENE/60.0***	***78.1 / -3.86***	***535 Legget Drive Kanata ON K2K 3B8***	***EHS***

Order No:	20100311004	***Nearest Intersection:***	Legget Drive and Terry Fox Drive
Status:	C	***Municipality:***	Kanata
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	3/19/2010	***Search Radius (km):***	0.25
Date Received:	3/11/2010	***X:***	-75.919057
Previous Site Name:		***Y:***	45.347895
Lot/Building Size:			
Additional Info Ordered:	City Directory		

10	***2 of 12***	***ENE/60.0***	***78.1 / -3.86***	***Nortel Networks Corporation 535 Legget Drive Ottawa ON***	***CA***

Certificate #:	4854-5GZU2U
Application Year:	2002
Issue Date:	12/20/2002
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

10	***3 of 12***	***ENE/60.0***	***78.1 / -3.86***	***Kanata Research Park Corporation 535 Legget Drive***	***CA***

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

Certificate #: 5182-5M9TGN
Application Year: 2003
Issue Date: 5/8/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

10	4 of 12	ENE/60.0	78.1 / -3.86	**Mead Johnson Nutritionals** **535 Legget Dr Unit 900** **Kanata ON K2K 3B8**	SCT

Established: 01-AUG-07
Plant Size (ft²):
Employment:

--Details--
Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

Description: Toiletries, Cosmetics and Sundries Wholesaler-Distributors
SIC/NAICS Code: 414520

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

10	5 of 12	ENE/60.0	78.1 / -3.86	**PIKA Technologies Inc.** **535 Legget Dr Suite 400** **Kanata ON K2K 3B8**	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

10	6 of 12	ENE/60.0	78.1 / -3.86	**Solace Systems Inc.** **535 Legget Dr Floor 3** **Kanata ON K2K 3B8**	SCT

Established:
Plant Size (ft²):

Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors
SIC/NAICS Code: 417310

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10 | ***7 of 12*** | ***ENE/60.0*** | ***78.1 / -3.86*** | ***KANATA RESEARCH PARK***
535 LEGGET Drive
KANATA ON K2K3B8 | ***NPRI***

NPRI ID:	8800000227	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWER C	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	65	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10024-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrous oxide
Air:	
Water:	
Land:	
Total Releases:	

Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns

Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

---

10 | ***8 of 12*** | ***ENE/60.0*** | ***78.1 / -3.86*** | ***Kanata Research Park Corporation***
535 Legget Drive
Ottawa ON K2K 2X3 | ***ECA***

Approval No: 8125-4MTJ36
Approval Date: 2001-03-29
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8015-4UUK67-14.pdf
PDF Site Location:

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10 | ***9 of 12*** | ***ENE/60.0*** | ***78.1 / -3.86*** | ***Nortel Networks Corporation***
535 Legget Drive
Ottawa ON K2H 8E9 | ***ECA***

Approval No: 4854-5GZU2U
Approval Date: 2002-12-20
Status: Approved
Record Type: ECA
Link Source: IDS
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:

SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Nortel Networks Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0863-5DAQUM-14.pdf
PDF Site Location:

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10 **10 of 12** **ENE/60.0** **78.1 / -3.86** **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 **ECA**

Approval No: 5816-5ALKNH **MOE District:** Ottawa
Approval Date: 2002-05-30 **City:**
Status: Approved **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8364-59NNET-14.pdf
PDF Site Location:

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10 **11 of 12** **ENE/60.0** **78.1 / -3.86** **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 **ECA**

Approval No: 8125-4MTJ36 **MOE District:** Ottawa
Approval Date: 2001-02-06 **City:**
Status: Revoked and/or Replaced **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5568-4R5PGT-14.pdf
PDF Site Location:

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10 **12 of 12** **ENE/60.0** **78.1 / -3.86** **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 **ECA**

Approval No: 5182-5M9TGN **MOE District:** Ottawa
Approval Date: 2003-05-08 **City:**
Status: Approved **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2856-5DMHSA-14.pdf
PDF Site Location:

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11 | **1 of 1** | **NW/69.7** | **81.1 / -0.81** | **700 March Road Ottawa ON** | **EHS**

Order No:	20080220030	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	2/29/2008	**Search Radius (km):**	0.25
Date Received:	2/20/2008	**X:**	-75.924499
Previous Site Name:		**Y:**	45.349902
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans		

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12 | **1 of 1** | **ENE/70.7** | **79.3 / -2.67** | **Kanata Research Park Corporation Kanata Research Park Kanata ON K2K 2X3** | **ECA**

Approval No:	8125-4MTJ36	**MOE District:**	Ottawa
Approval Date:	2002-05-30	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.918846
Record Type:	ECA	**Latitude:**	45.348034
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Kanata Research Park Corporation		
Address:	Kanata Research Park		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6185-4MFKX7-14.pdf		
PDF Site Location:			

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13 | **1 of 1** | **W/76.5** | **84.1 / 2.20** | **lot 9 con 3 ON** | **WWIS**

Well ID:	1510215	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Industrial	**Date Received:**	10/23/1969
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3504
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510215.pdf

Additional Detail(s) (Map)

Well Completed Date:	1969/10/01
Year Completed:	1969
Depth (m):	21.6408
Latitude:	45.347343670196
Longitude:	-75.9236866038524
Path:	151\1510215.pdf

Bore Hole Information

Bore Hole ID:	10032243	***Elevation:***	80.093772
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	o	***East83:***	427640.60
Code OB Desc:	Overburden	***North83:***	5021952.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	01-Oct-1969 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931014235
Layer:	2
Color:	1
General Color:	WHITE
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	71.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014234
Layer:	1
Color:	
General Color:	
Mat1:	25
Most Common Material:	OVERBURDEN
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 961510215
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10580813
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057084
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 71
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057083
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991510215
Pump Set At:
Static Level: 29.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 60.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 7.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934379016
Test Type: Recovery
Test Duration: 30
Test Level: 29.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934096838
Test Type: Recovery
Test Duration: 15
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934640036
Test Type: Recovery
Test Duration: 45
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934896956
Test Type: Recovery
Test Duration: 60
Test Level: 29.0
Test Level UOM: ft

Water Details

Water ID: 933465174
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

Water Details

Water ID: 933465173
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 62.0
Water Found Depth UOM: ft

14	*1 of 2*	*SW/78.4*	*83.8 / 1.86*	***CAPRICORN DATA*** ***525 MARCH RD RR 33*** ***KANATA ON K2K 2M5***	***SCT***

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: CARBON PAPER AND INKED RIBBONS
SIC/NAICS Code: 3955

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	2 of 2	SW/78.4	83.8 / 1.86	Capricorn Data Inc. 525 March Rd Kanata ON K2K 2M5	SCT

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	1 of 2	SE/81.0	80.2 / -1.74	Legget Drive Development Inc. 500 March Rd Ottawa ON K1P 6E2	ECA

Approval No: 0623-9SKM34
Approval Date: 2015-01-13
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Legget Drive Development Inc.
Address: 500 March Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7712-9RMMU6-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	2 of 2	SE/81.0	80.2 / -1.74	Sanmina Corporation 500 March Road Ottawa ON K2K 0J9	GEN

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Desc: Polymeric resins

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

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 262 T
Waste Class Desc: Detergents and soaps

---

16 | **1 of 4** | **SE/81.4** | **79.9 / -2.05** | **510-528 March Road Kanata ON** | **EHS**

Order No: 20061012005
Status: C
Report Type: Custom Report
Report Date: 10/20/2006
Date Received: 10/12/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.917957
Y: 45.344121

---

16 | **2 of 4** | **SE/81.4** | **79.9 / -2.05** | **528 March Road Ottawa ON** | **EHS**

Order No: 20140416041
Status: C
Report Type: Custom Report
Report Date: 22-APR-14
Date Received: 16-APR-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.917765
Y: 45.344926

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

16 *3 of 4* *SE/81.4* *79.9 / -2.05* **SCI BROCKVILLE CORP.** **528 MARCH KANATA** **ON** **EASR**

Approval No:	R-002-4521547225	**SWP Area Name:**	
Status:	Registered	**MOE District:**	
Date:	8/25/15	**Municipality:**	KANATA
Record Type:		**Latitude:**	
Link Source:		**Longitude:**	
Project Type:	Standby Power System	**Geometry X:**	
Full Address:		**Geometry Y:**	
Approval Type:			
Full PDF Link:			
PDF URL:			
PDF Site Location:			

16 *4 of 4* *SE/81.4* *79.9 / -2.05* **SCI BROCKVILLE CORP.** **528 MARCH RD** **KANATA ON K2K 2M5** **EASR**

Approval No:	R-002-4521547225	**SWP Area Name:**	
Status:	REGISTERED	**MOE District:**	
Date:	2015-08-25	**Municipality:**	KANATA
Record Type:	EASR	**Latitude:**	
Link Source:	MOFA	**Longitude:**	
Project Type:	Standby Power System	**Geometry X:**	
Full Address:		**Geometry Y:**	
Approval Type:	EASR-Standby Power System		
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2016294		
PDF URL:			
PDF Site Location:			

17 *1 of 14* *W/89.1* *84.1 / 2.20* **MILLER'S QUALITY DRY CLEANERS** **591 MARCH ROAD** **KANATA ON K2K 2M5** **GEN**

Generator No:	ON2095500	**Status:**	
SIC Code:	9721	**Co Admin:**	
SIC Description:	POWER LAUND./CLEANERS	**Choice of Contact:**	
Approval Years:	95,96,97,98,99,00,01	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

17 *2 of 14* *W/89.1* *84.1 / 2.20* **591 March Road** **Kanata ON K2K 2M5** **EHS**

Order No:	20061017022	**Nearest Intersection:**	
Status:	C	**Municipality:**	Kanata (Ottawa)
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	10/19/2006	**Search Radius (km):**	0.25
Date Received:	10/17/2006	**X:**	-75.923715
Previous Site Name:		**Y:**	45.347553
Lot/Building Size:	STRIP PLAZA		

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

Additional Info Ordered:

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17 ***3 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	
SIC Description:	Veterinary Services	***Choice of Contact:***	
Approval Years:	2009	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

17 ***4 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	
SIC Description:	Veterinary Services	***Choice of Contact:***	
Approval Years:	2010	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES
Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES

---

17 ***5 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	
SIC Description:	Veterinary Services	***Choice of Contact:***	
Approval Years:	2011	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	312

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

Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

17 | 6 of 14 | W/89.1 | 84.1 / 2.20 | **March Veterinary Professional Corporation**
591 March Road
Kanata ON K2K 2M5 | GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

---

17 | 7 of 14 | W/89.1 | 84.1 / 2.20 | **March Veterinary Professional Corporation**
591 March Road
Kanata ON | GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

17 | 8 of 14 | W/89.1 | 84.1 / 2.20 | **591 March Rd**
Ottawa ON K2K2M5 | EHS

Order No: 20151123050
Status: C
Report Type: Standard Select Report
Report Date: 27-NOV-15
Date Received: 23-NOV-15
Previous Site Name:
Lot/Building Size: 1.25 hectares (approx.)

Nearest Intersection:
Municipality: City of Ottawa
Client Prov/State: ON
Search Radius (km): .25
X: -75.923843
Y: 45.347298

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

Additional Info Ordered:

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17 ***9 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	Tobie Jaros
SIC Description:	VETERINARY SERVICES	***Choice of Contact:***	CO_ADMIN
Approval Years:	2016	***Phone No Admin:***	613-591-2408 Ext.
PO Box No:		***Contam. Facility:***	No
Country:	Canada	***MHSW Facility:***	No

Detail(s)

Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

17 ***10 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	Tobie Jaros
SIC Description:	VETERINARY SERVICES	***Choice of Contact:***	CO_ADMIN
Approval Years:	2015	***Phone No Admin:***	613-591-2408 Ext.
PO Box No:		***Contam. Facility:***	No
Country:	Canada	***MHSW Facility:***	No

Detail(s)

Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

17 ***11 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	Courtney C Cavanagh
SIC Description:	VETERINARY SERVICES	***Choice of Contact:***	CO_ADMIN
Approval Years:	2014	***Phone No Admin:***	613-591-2408 Ext.
PO Box No:		***Contam. Facility:***	No
Country:	Canada	***MHSW Facility:***	No

Detail(s)

Waste Class:	261

Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

17 | ***12 of 14*** | ***W/89.1*** | ***84.1 / 2.20*** | ***March Veterinary Professional Corporation*** | ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 264 T
Waste Class Desc: Photoprocessing wastes

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

17 | ***13 of 14*** | ***W/89.1*** | ***84.1 / 2.20*** | ***March Veterinary Professional Corporation*** | ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 264 T
Waste Class Desc: Photoprocessing wastes

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

---

17 | ***14 of 14*** | ***W/89.1*** | ***84.1 / 2.20*** | ***March Veterinary Professional Corporation*** | ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

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

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 264 T
Waste Class Desc: Photoprocessing wastes

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

18 ***1 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Texas Instruments Canada Ltd.***
505 March Rd Suite 200
Ottawa ON K2K 3A4 ***SCT***

Established: 1962
Plant Size (ft²):
Employment: 21

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

---

18 ***2 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***505 March Road***
Ottawa ON ***EHS***

Order No: 20050314003w
Status: C
Report Type:
Report Date: 3/14/2005 10:08:25 AM
Date Received: 3/14/2005 10:08:25 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: MA
Search Radius (km): 0.25
X: 0
Y: 0

---

18 ***3 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Texas Instruments Canada Ltd.***
505 March Rd Suite 200
Kanata ON K2K 3A4 ***SCT***

Established: 01-AUG-62
Plant Size (ft²):
Employment:

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

---

18 ***4 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Telus Health Solutions Inc.***
505 March Rd Suite 450
Kanata ON K2K 3A4 ***SCT***

Established:
Plant Size (ft²):
Employment:

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

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

---

18 ***5 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Colonnade Management<UNOFFICIAL>*** ***SPL***
505 March Road
Ottawa ON K2K 3A4

Ref No:	7635-8J2NEM	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/19/2011	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge or Emission to Air	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	38	***Nearest Watercourse:***	
Contaminant Name:	REFRIGERANT GAS, N.O.S.	***Site Address:***	505 March Road
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:	Sewage - Municipal/Private and Commercial	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/21/2011	***Site Map Datum:***	
Dt Document Closed:	12/3/2011	***SAC Action Class:***	Air Spills - Gases and Vapours
Incident Reason:		***Source Type:***	

Site Name: circuit #2<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Kanata North Tech Park: 90 lbs R407C to atm
Contaminant Qty: 41 kg

---

19 ***1 of 4*** ***NW/90.9*** ***80.9 / -1.05*** ***MKB RESTAURANTS (CS) LIMITED*** ***CA***
700 MARCH ROAD
KANATA CITY ON K2K 2V9

Certificate #: 8-4213-94-
Application Year: 94
Issue Date: 12/16/1994
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: KITCHEN EXH. HOOD FOR BURGER KING REST.
Contaminants: Odour/Fumes
Emission Control: No Controls

---

19 ***2 of 4*** ***NW/90.9*** ***80.9 / -1.05*** ***RAJANS PHARMACIES LTD.*** ***GEN***
700 MARCH ROAD
KANATA ON K2K 2V9

Generator No:	ON2560500	***Status:***	

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

SIC Code:	6031	**Co Admin:**	
SIC Description:	PHARMACIES	**Choice of Contact:**	
Approval Years:	00,01	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

19 | ***3 of 4*** | ***NW/90.9*** | ***80.9 / -1.05*** | ***Amika Mobile Corporation***
700 March Rd Suite 203
Kanata ON K2K 2V9 | ***SCT***

Established:	01-AUG-07
Plant Size (ft²):	
Employment:	

--Details--

Description:	Computer Systems Design and Related Services
SIC/NAICS Code:	541510
Description:	Software Publishers
SIC/NAICS Code:	511210
Description:	Computer Systems Design and Related Services
SIC/NAICS Code:	541510

---

19 | ***4 of 4*** | ***NW/90.9*** | ***80.9 / -1.05*** | ***Kanata North Medical Centre***
700 March Rd
Kanata ON K2K 2V9 | ***GEN***

Generator No:	ON4413511	**Status:**	
SIC Code:	621110	**Co Admin:**	
SIC Description:	Offices of Physicians	**Choice of Contact:**	
Approval Years:	2010	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

20 | ***1 of 1*** | ***WSW/93.9*** | ***84.9 / 2.95*** | ***lot 9 con 3***
ON | ***WWIS***

Well ID:	1503344	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/6/1964
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	

Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503344.pdf

Additional Detail(s) (Map)

Well Completed Date:	1964/05/28
Year Completed:	1964
Depth (m):	17.0688
Latitude:	45.3466282973595
Longitude:	-75.923100538294
Path:	150\1503344.pdf

Bore Hole Information

Bore Hole ID:	10025387	**Elevation:**	80.732414
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	427685.60
Code OB Desc:	Bedrock	**North83:**	5021872.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	28-May-1964 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996629
Layer:	2
Color:	
General Color:	
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 930996628

Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503344
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573957
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043526
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043527
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 56
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503344
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 12.0
Recommended Pump Depth: 40.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0

Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456238
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55.0
Water Found Depth UOM:	ft

---

21 | ***1 of 1*** | ***W/95.8*** | ***84.9 / 2.99*** | ***ON*** | ***BORE***

Borehole ID:	609785	**Inclin FLG:**	No
OGF ID:	215511400	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.347075
Total Depth m:	-999	**Longitude DD:**	-75.923682
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	427641
Drill Method:		**Northing:**	5021922
Orig Ground Elev m:	80.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	80.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384079	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT.		

Geology Stratum ID:	218384080	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Black	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Granite	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: BEDROCK,GRANITE. . GRANITE. GREY. GRANITE. BLACK. 003050. BEDROCK. SEISMIC VELOCITY =
**Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 022930 NTS_Sheet: 31G05D
Confiden 1: Reliable information but incomplete.
Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

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

22	1 of 35	NE/99.2	79.9 / -1.99	**NOKIA IP TELEPHONY CORPORATION** **555 LEGGET DR SUITE 400** **KANATA ON K2K 2X3**	SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

22	2 of 35	NE/99.2	79.9 / -1.99	**NOKIA** **555 Legget Dr Suite 400** **Kanata ON K2K 2X3**	SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Other Leather and Allied Product Manufacturing
SIC/NAICS Code: 316990

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Battery Manufacturing
SIC/NAICS Code: 335910

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Description: Software Publishers
SIC/NAICS Code: 511210

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22 | 3 of 35 | NE/99.2 | 79.9 / -1.99 | **March Networks**
555 Legget Dr Suite 140
Kanata ON K2K 2X3 | SCT

Established: 1991
Plant Size (ft²):
Employment: 55

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

---

22 | 4 of 35 | NE/99.2 | 79.9 / -1.99 | **TELEXIS CORPORATION**
555 LEGGET DRIVE, SUITE 210
KANATA ON K2K 2X3 | GEN

Generator No: ON2343800
SIC Code: 3352
SIC Description: ELECT. PARTS & COMP.
Approval Years: 97,98,99,00,01
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

---

22 **5 of 35** **NE/99.2** **79.9 / -1.99**

PULSE CANADA LTD.
555 LEGGET DRIVE SUITE 1036
KANATA ON K2K 2X3

GEN

Generator No: ON2399800
SIC Code: 4839
SIC Description: OTHER TELECOMMUN.
Approval Years: 98,99,00,01
PO Box No:
Country:

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

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

---

22 **6 of 35** **NE/99.2** **79.9 / -1.99**

PULSE CANADA LTD.
555 LEGGET DRIVE SUITE 1036 TWR B
KANATA ON K2K 2X3

GEN

Generator No: ON2399800
SIC Code:
SIC Description:
Approval Years: 02,03,04
PO Box No:
Country:

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

---

22 **7 of 35** **NE/99.2** **79.9 / -1.99**

March Networks Corporation
555 Legget Dr
Ottawa ON K2K 2X3

SCT

Established: 1991
Plant Size (ft²):
Employment: 90

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

---

22 **8 of 35** **NE/99.2** **79.9 / -1.99**

March Networks Corporation
555 Legget Dr Suite 530
Kanata ON K2K 2X3

SCT

Established: 1991
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	9 of 35	NE/99.2	79.9 / -1.99	KRP Management Services Inc. 555 Legget Drive Ottawa ON	GEN

Generator No: ON4875456
SIC Code: 561420 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-
Approval Years: 06,07,08
PO Box No:
Country:

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 114
Waste Class Desc: OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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

Waste Class: 243
Waste Class Desc: PCB'S

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	10 of 35	NE/99.2	79.9 / -1.99	Redirack Storage Systems 555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	SCT

Established:

Plant Size (ft²):
Employment:

--Details--

Description:	Material Handling Equipment Manufacturing
SIC/NAICS Code:	333920
Description:	All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code:	332999
Description:	Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code:	332329
Description:	Hardware Manufacturing
SIC/NAICS Code:	332510
Description:	Hardware Wholesaler-Distributors
SIC/NAICS Code:	416330
Description:	Metal Service Centres
SIC/NAICS Code:	416210
Description:	Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code:	337215
Description:	Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code:	417910
Description:	Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417230
Description:	Lumber, Plywood and Millwork Wholesaler-Distributors
SIC/NAICS Code:	416320
Description:	Material Handling Equipment Manufacturing
SIC/NAICS Code:	333920
Description:	Wood Container and Pallet Manufacturing
SIC/NAICS Code:	321920
Description:	Other Metal Container Manufacturing
SIC/NAICS Code:	332439

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	11 of 35	NE/99.2	79.9 / -1.99	***March Networks*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	***GEN***

Generator No:	ON6420281	***Status:***	
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	07,08	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
22	12 of 35	NE/99.2	79.9 / -1.99	**Kanata Research Park Corporation** **555 Legget Drive** **Ottawa ON**	CA
Certificate #:		4220-5HUVP4			
Application Year:		2003			
Issue Date:		1/18/2003			
Approval Type:		Air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
22	13 of 35	NE/99.2	79.9 / -1.99	**Netistix Technologies Corp** **555 Legget Dr Suite 304** **Kanata ON K2K 2X3**	SCT
Established:		01-DEC-02			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Office Administrative Services			
SIC/NAICS Code:		561110			
Description:		Software Publishers			
SIC/NAICS Code:		511210			
22	14 of 35	NE/99.2	79.9 / -1.99	**Sch Specialty Literacy/Interve** **555 Legget Dr Suite 900** **Kanata ON K2K 2X3**	SCT
Established:		01-AUG-92			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Software Publishers			
SIC/NAICS Code:		511210			
Description:		Software Publishers			
SIC/NAICS Code:		511210			
22	15 of 35	NE/99.2	79.9 / -1.99	**Redirack Storage Systems** **555 Legget Dr Suite 1007** **Kanata ON K2K 2X3**	SCT
Established:					
Plant Size (ft²):					
Employment:					

--Details--
Description: Metal Service Centres
SIC/NAICS Code: 416210

Description: Other Metal Container Manufacturing
SIC/NAICS Code: 332439

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Lumber, Plywood and Millwork Wholesaler-Distributors
SIC/NAICS Code: 416320

Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code: 417910

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

22	***16 of 35***	***NE/99.2***	***79.9 / -1.99***	***Mediphan Inc.*** ***555 Legget Dr Suite 305*** ***Ottawa ON K2K 2X3***	***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

Description: Medical Equipment and Supplies Manufacturing
SIC/NAICS Code: 339110

22	***17 of 35***	***NE/99.2***	***79.9 / -1.99***	***KRP Management Services Inc.***	***GEN***

555 Legget Drive
Ottawa ON

Generator No:	ON4875456	***Status:***	
SIC Code:	561420, 531120	***Co Admin:***	
SIC Description:	Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)	***Choice of Contact:***	
Approval Years:	2009	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES

22	***18 of 35***	***NE/99.2***	***79.9 / -1.99***	***KRP Management Services Inc.*** ***555 Legget Drive*** ***Ottawa ON***	***GEN***

Generator No:	ON4875456	***Status:***	
SIC Code:	561420, 531120	***Co Admin:***	
SIC Description:	Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)	***Choice of Contact:***	
Approval Years:	2010	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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22 | **19 of 35** | **NE/99.2** | **79.9 / -1.99** | **KRP Management Services Inc.**
555 Legget Drive
Ottawa ON | **GEN**

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

22	20 of 35	NE/99.2	79.9 / -1.99	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

22	21 of 35	NE/99.2	79.9 / -1.99	**KANATA RESEARCH PARK** **555 LEGGET Drive** **KANATA ON K2K2X3**	NPRI

NPRI ID:	8800000226	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWERS A & B	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	1036	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10102-43-9
Report ID:	
Rpt Period:	2004
Subst Released:	Oxides of nitrogen (expressed as NO)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M08
Report ID:	
Rpt Period:	2004

Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

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22 | ***22 of 35*** | ***NE/99.2*** | ***79.9 / -1.99*** | ***KRP Management Services Inc.*** ***555 Legget Drive*** ***Ottawa ON*** | ***GEN***

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: TELEPHONE CALL CENTRES, LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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

Waste Class: 243

Waste Class Desc: PCBS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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22 | **23 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Dr Ottawa ON K2K2X3** | **EHS**

Order No: 20150903032
Status: C
Report Type: Custom Report
Report Date: 09-SEP-15
Date Received: 03-SEP-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.919803
Y: 45.348953

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22 | **24 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Dr Ottawa ON K2K2X3** | **EHS**

Order No: 20150304029
Status: C
Report Type: Custom Report
Report Date: 09-MAR-15
Date Received: 04-MAR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.919787
Y: 45.349161

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22 | **25 of 35** | **NE/99.2** | **79.9 / -1.99** | **Kanata Research Park Corporation 555 Legget Drive Ottawa ON K2K 2X3** | **ECA**

Approval No: 4220-5HUVP4
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 555 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8337-5DXR24-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.909996
Latitude: 45.346844
Geometry X:
Geometry Y:

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22 | **26 of 35** | **NE/99.2** | **79.9 / -1.99** | **Kanata Research Park Corp. 555 Legget Drive Ottawa ON K2K 2X3** | **GEN**

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

Status:
Co Admin: Paul Allen
Choice of Contact: CO_ADMIN

Approval Years:	2016	**Phone No Admin:**	613-591-0594 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	135
Waste Class Desc:	REACTIVE ANION WASTES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

22 | ***27 of 35*** | ***NE/99.2*** | ***79.9 / -1.99*** | ***Kanata Research Park Corp.***
555 Legget Drive
Ottawa ON K2K 2X3 | ***GEN***

Generator No:	ON4875456	**Status:**	
SIC Code:	531310	**Co Admin:**	Bob Bisson
SIC Description:	REAL ESTATE PROPERTY MANAGERS	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	613-591-0594 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

22	28 of 35	NE/99.2	79.9 / -1.99	**Kanata Research Park Corp.** **555 Legget Drive** **Ottawa ON K2K 2X3**	GEN

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Bob Bisson
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-591-0594 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 243
Waste Class Desc: PCBS

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22 | **29 of 35** | **NE/99.2** | **79.9 / -1.99** | **KRP Properties A Division of Wesley Clover Interna**
555 Legget Drive
Ottawa ON K2K 2X3 | **GEN**

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

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

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 135 C
Waste Class Desc: Wastes containing other reactive anions

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I

Waste Class Desc: Petroleum distillates

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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22 | ***30 of 35*** | ***NE/99.2*** | ***79.9 / -1.99*** | ***KRP Properties A Division of Wesley Clover Interna***
555 Legget Drive
Ottawa ON K2K 2X3 | ***GEN***

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 135 C
Waste Class Desc: Wastes containing other reactive anions

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

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

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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22 | **31 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

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22 | **32 of 35** | **NE/99.2** | **79.9 / -1.99** | **KRP Properties A Division of Wesley Clover Interna
555 Legget Drive
Ottawa ON K2K 2X3** | **GEN**

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 135 C
Waste Class Desc: Wastes containing other reactive anions

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

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

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

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

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

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22 | **33 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

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22 | **34 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

---

22 | **35 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

---

23 | **1 of 2** | **SSE/106.7** | **80.8 / -1.14** | **Trend Micro, Inc. 40 Hines Rd Suite 200 Kanata ON K2K 2M5** | **SCT**

Established: 01-AUG-98
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

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

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

23 **2 of 2** **SSE/106.7** **80.8 / -1.14** **KRP Properties**
40 Hines Road
Ottawa ON K2K 2M5
GEN

Generator No: ON5372742
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

---

24 **1 of 10** **E/107.7** **78.7 / -3.19** **Open Text Corporation**
515 Legget Dr Suite 300
Kanata ON K2K 3G4
SCT

Established: 1983
Plant Size (ft²): 19000
Employment: 55

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

---

24 **2 of 10** **E/107.7** **78.7 / -3.19** **Ubiquity Software Corp.**
515 Legget Dr Suite 400
Ottawa ON K2K 3G4
SCT

Established: 1993
Plant Size (ft²):
Employment: 90

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

---

24 **3 of 10** **E/107.7** **78.7 / -3.19** **Kanata Research Park Corporation**
515 Legget drive
Ottawa ON
SPL

Ref No: 8118-7LCLK2
Site No:
Incident Dt:
Discharger Report:
Material Group:
Health/Env Conseq:

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

Year:		**Client Type:**	
Incident Cause:	Unknown	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	Ottawa
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	Referral to others	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	11/13/2008	**Site Map Datum:**	
Dt Document Closed:	11/26/2008	**SAC Action Class:**	Land Spills
Incident Reason:	Unknown - Reason not determined	**Source Type:**	

Site Name: Kanata Research Park Corp<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Kanata Research Park, Diesel to Grnd cln
Contaminant Qty: other - see incident description

---

24 **4 of 10** **E/107.7** **78.7 / -3.19** **Kanata Research Park Corporation** **CA**
515 Legget Drive
Ottawa ON

Certificate #: 2275-5HUW47
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

24 **5 of 10** **E/107.7** **78.7 / -3.19** **Quest Software Canada Inc.** **SCT**
515 Legget Dr Suite 1001
Kanata ON K2K 3G4

Established: 01-APR-87
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

---

24 **6 of 10** **E/107.7** **78.7 / -3.19** **515 LEGGET DRIVE** **HINC**
KANATA ON

External File Num: FS INC 0811-07034

Fuel Occurrence Type:	Leak
Date of Occurrence:	11/13/2008
Fuel Type Involved:	Fuel Oil
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Commercial (e.g. restaurant, business unit, etc)
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:Yes Training: Yes Management:No Human Factors:Yes
Reported Details:	
Fuel Category:	Liquid Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

---

24 | ***7 of 10*** | ***E/107.7*** | ***78.7 / -3.19*** | ***515 Legget Drive Ottawa ON*** | ***EHS***

Order No:	20120116006	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	1/20/2012	**Search Radius (km):**	0.25
Date Received:	1/16/2012 11:23:28 AM	**X:**	-75.91645
Previous Site Name:		**Y:**	45.346799
Lot/Building Size:			
Additional Info Ordered:			

---

24 | ***8 of 10*** | ***E/107.7*** | ***78.7 / -3.19*** | ***KANATA RESEARCH PARK 515 LEGGET Drive KANATA ON K2K3G4*** | ***NPRI***

NPRI ID:	8800000228	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	
Rpt Type ID:		**Cont First Name:**	
Report Year:	2004	**Cont Last Name:**	
Not-Current Rpt?:		**Contact Position:**	
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	TOWER D	**Cont Area Code:**	
Fac Address1:		**Contact Tel.:**	
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	294	**Waste Streams:**	
Parent Co.:		**No Streams:**	

No Parent Co.: ***Waste Off Sites:***
Pollut Prev Cmnts: ***No Off Sites:***
Stacks: ***Shutdown:***
No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Substance Release Report

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:

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

Units:	tonnes
CAS No:	74-82-8
Report ID:	
Rpt Period:	2004
Subst Released:	Methane
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	7446-09-5
Report ID:	
Rpt Period:	2004
Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	811-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	HFC-134a Hydrofluorocarbon
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M08
Report ID:	
Rpt Period:	2004
Subst Released:	PM - Total Particulate Matter
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M10
Report ID:	
Rpt Period:	2004
Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

24	9 of 10	E/107.7	78.7 / -3.19	515 Legget Dr Ottawa ON K2K3G4	EHS

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

Order No:	20160614073	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	20-JUN-16	**Search Radius (km):**	.25
Date Received:	14-JUN-16	**X:**	-75.917214
Previous Site Name:		**Y:**	45.347623
Lot/Building Size:			
Additional Info Ordered:			

---

24 | **10 of 10** | **E/107.7** | **78.7 / -3.19** | **Kanata Research Park Corporation**
515 Legget Drive
Ottawa ON K2K 2X3 | **ECA**

Approval No:	2275-5HUW47	**MOE District:**	Ottawa
Approval Date:	2003-01-18	**City:**	
Status:	Approved	**Longitude:**	-75.91614
Record Type:	ECA	**Latitude:**	45.346527
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Kanata Research Park Corporation		
Address:	515 Legget Drive		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4311-5DXQ9R-14.pdf		
PDF Site Location:			

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25 | **1 of 2** | **ENE/119.0** | **77.2 / -4.75** | **525 Legget Drive**
Ottawa (Formerly Kanata) ON K2K 2W2 | **EHS**

Order No:	20070627004	**Nearest Intersection:**	Terry Fox Drive and Legget Drive
Status:	C	**Municipality:**	Ottawa
Report Type:	CAN - Complete Report	**Client Prov/State:**	
Report Date:	7/6/2007	**Search Radius (km):**	0.25
Date Received:	6/27/2007	**X:**	-75.918152
Previous Site Name:		**Y:**	45.348691
Lot/Building Size:	4.55 Acre		
Additional Info Ordered:	City Directory		

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25 | **2 of 2** | **ENE/119.0** | **77.2 / -4.75** | **Legget Drive Development Inc.**
515 and 525 Legget Dr
Ottawa ON K1P 6E2 | **ECA**

Approval No:	3598-9STV8V	**MOE District:**	
Approval Date:	2015-01-16	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Legget Drive Development Inc.		
Address:	515 and 525 Legget Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7005-9RARBH-14.pdf		
PDF Site Location:			

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26 | **1 of 4** | **SSW/119.6** | **83.9 / 1.95** | **70 Hines Rd.**
Kanata ON K2K 2M5 | **EHS**

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

Order No:	20030506003	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Complete Report	**Client Prov/State:**	ON
Report Date:	5/14/03	**Search Radius (km):**	0.35
Date Received:	5/6/03	**X:**	-75.922054
Previous Site Name:		**Y:**	45.345364
Lot/Building Size:			
Additional Info Ordered:			

26	2 of 4	SSW/119.6	83.9 / 1.95	**2117547 Ontario Inc.** **70 Hines Rd** **Ottawa ON**	CA

Certificate #:	1183-8GPFW8
Application Year:	2011
Issue Date:	5/20/2011
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

26	3 of 4	SSW/119.6	83.9 / 1.95	**2117547 Ontario Inc.** **70 Hines Rd** **Ottawa ON K2V 1B8**	ECA

Approval No:	1183-8GPFW8	**MOE District:**	Ottawa
Approval Date:	2011-05-20	**City:**	
Status:	Approved	**Longitude:**	-75.92153
Record Type:	ECA	**Latitude:**	45.34491
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	2117547 Ontario Inc.		
Address:	70 Hines Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4593-89YRCE-14.pdf		
PDF Site Location:			

26	4 of 4	SSW/119.6	83.9 / 1.95	**Rogers Communications Inc.** **70 Hines Rd.; 70 Hines Rd** **Ottawa; Ottawa ON K2K 2M5**	SPL

Ref No:	4845-BF9RH6	**Discharger Report:**	
Site No:	NA; 3801-89YRCZ	**Material Group:**	
Incident Dt:	8/20/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Unknown / N/A
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	70 Hines Rd.; 70 Hines Rd
Contaminant Limit 1:		**Site District Office:**	Ottawa; Ottawa
Contam Limit Freq 1:		**Site Postal Code:**	K2K 2M5
Contaminant UN No 1:	1202	**Site Region:**	Eastern

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

Environment Impact:		**Site Municipality:**	Ottawa; Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	NA
Receiving Env:	Land; Source Water Zone	**Northing:**	NA
MOE Response:	No	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	8/21/2019	**Site Map Datum:**	NA
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Material Failure - Poor Design/Substandard Material	**Source Type:**	Valve/Fitting/Piping

Site Name: Legion Branch 638<UNOFFICIAL>; 70 Hines Road
Site County/District: NA
Site Geo Ref Meth: NA
Incident Summary: Rogers: ~150-250L diesel to ground/cracked line
Contaminant Qty: 250 L

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27 **1 of 2** **SSW/119.7** **84.6 / 2.67** **80 Hines Road**
n/a ON K2K 2T8 **EHS**

Order No:	20060623001w	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Online Mapless	**Client Prov/State:**	CA
Report Date:	6/23/2006	**Search Radius (km):**	0.25
Date Received:	6/23/2006	**X:**	
Previous Site Name:		**Y:**	
Lot/Building Size:			
Additional Info Ordered:			

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27 **2 of 2** **SSW/119.7** **84.6 / 2.67** **AMCC**
80 Hines Rd.
Kanata ON K2K 2T8 **GEN**

Generator No:	ON4203674	**Status:**	
SIC Code:	339990	**Co Admin:**	
SIC Description:	All Other Miscellaneous Manufacturing	**Choice of Contact:**	
Approval Years:	06,07,08	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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28 **1 of 7** **WSW/121.8** **84.9 / 2.99** **ROHDE & SCHWARZ CANADA**
555 MARCH RD
KANATA ON K2K 2M5 **SCT**

Established: 1970
Plant Size (ft²): 6000
Employment: 17

--Details--
Description: RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT

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

SIC/NAICS Code: 3663

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

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28 **2 of 7** **WSW/121.8** **84.9 / 2.99** **TEKTRONIX CANADA INC.** **SCT**
555 MARCH RD
KANATA ON K2K 2M5

Established: 0000
Plant Size (ft²): 0
Employment: 8

--Details--
Description: COMPUTERS AND COMPUTER PERIPHERAL EQUIPMENT AND SOFTWARE
SIC/NAICS Code: 5045

Description: ELECTRONIC PARTS AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5065

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28 **3 of 7** **WSW/121.8** **84.9 / 2.99** **Rohde & Schwarz Canada Inc.** **SCT**
555 March Rd
Kanata ON K2K 2M5

Established: 1970
Plant Size (ft²): 8000
Employment: 23

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

---

28 **4 of 7** **WSW/121.8** **84.9 / 2.99** **Localcity** **SCT**
555 March Rd
Kanata ON K2K 2M5

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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28 **5 of 7** **WSW/121.8** **84.9 / 2.99** **Local City Inc.** **SCT**
555 March Rd

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Kanata ON K2K 2M5	

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

28 | **6 of 7** | **WSW/121.8** | **84.9 / 2.99** | **ASAP-CD Solutions**
555 March Rd
Ottawa ON K2K 2M5 | **SCT**

Established: 1996
Plant Size (ft²):
Employment: 7

--Details--
Description: Commercial Screen Printing
SIC/NAICS Code: 323113

Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Sound Recording Studios
SIC/NAICS Code: 512240

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28 | **7 of 7** | **WSW/121.8** | **84.9 / 2.99** | **555 March Road**
Ottawa (Kanata) ON | **EHS**

Order No: 20050715001
Status: C
Report Type: Custom Report
Report Date: 7/25/2005
Date Received: 7/15/2005
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.922669
Y: 45.347131

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29 | **1 of 19** | **W/135.6** | **84.8 / 2.88** | **NEWBRIDGE NETWORKS CORP. - 8-4051-90**
603 MARCH ROAD (8-4053-90)
KANATA CITY ON K2K 2M5 | **CA**

Certificate #: 8-4052-90-
Application Year: 90
Issue Date: 4/27/1990
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name:
Client Address:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEM NO. 2			
Contaminants:					
Emission Control:					

29	2 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORP. 8-4052-90 603 MARCH ROAD KANATA CITY ON K2K 2M5	CA
Certificate #:		8-4053-90-			
Application Year:		90			
Issue Date:		4/27/1990			
Approval Type:		Industrial air			
Status:		Cancelled			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEM NO. 3			
Contaminants:					
Emission Control:					

29	3 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORP. - 8-4053-90 603 MARCH ROAD (8-4051-90) KANATA CITY ON K2K 2M5	CA
Certificate #:		8-4054-90-			
Application Year:		90			
Issue Date:		4/27/1990			
Approval Type:		Industrial air			
Status:		Cancelled			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEM NO. 5			
Contaminants:					
Emission Control:					

29	4 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORP. - 8-4052-90 603 MARCH ROAD (8-4054-90) KANATA CITY ON K2K 2M5	CA
Certificate #:		8-4051-90-			
Application Year:		90			
Issue Date:		8/7/1991			
Approval Type:		Industrial air			
Status:		Approved in 1991			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEN NO. 1			
Contaminants:		N-Propyl Alcohol, Trifluorotrichloroethane, Acetone, Other Contaminant, Methyl Chloroform, Hydrogen Peroxide, N-Propyl Alcohol, Propylene Glycolmonomethyl Ether Acetate,P.M.Ace.			
Emission Control:		No Controls			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	5 of 19	W/135.6	84.8 / 2.88	TUNDRA SEMICONDUCTORS CORPORAT 603 MARCH RD KANATA ON K2K 2M5	SCT

Established: 1983
Plant Size (ft²): 40000
Employment: 60

--Details--
Description: INDUSTRIAL INSTRUMENTS FOR MEASUREMENT, DISPLAY, AND CONTROL OF PROCESS VARIABLES; & RELATED ITEMS
SIC/NAICS Code: 3823

Description: SEMICONDUCTORS AND RELATED DEVICES
SIC/NAICS Code: 3674

Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	6 of 19	W/135.6	84.8 / 2.88	Tundra Semiconductor Corp 603 March Rd Kanata ON K2K 2M5	SCT

Established: 1995
Plant Size (ft²): 40000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	7 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	CA

Certificate #: 8-4051-90-916
Application Year: 01
Issue Date: 4/6/01
Approval Type: Industrial air
Status: Approved
Application Type: Revocation
Client Name: Newbridge Networks Corporation
Client Address: 600 March Road, P.O. Box 13600
Client City: Kanata
Client Postal Code: K2K 2E6
Project Description: Revocation of CofA for Exhaust System No. 1 serving the Environmental Testing Room, Exhaust System No. 2 serving the Clean Room, Exhaust system No. 3 serving the soldering stations in the Production Area, and the Exhaust System No. 5 serving the Burn-In Laboratory.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	8 of 19	W/135.6	84.8 / 2.88	TRILLIUM TELEPHONE SYSTEMS INC. 603 MARCH ROAD KANATA ON K2K 2M5	GEN

Generator No: ON0424800
SIC Code: 3351
Status:
Co Admin:

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

SIC Description: TELECOMMUNICATIONS
Approval Years: 86,87,88,89,90
PO Box No:
Country:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

29 **9 of 19** **W/135.6** **84.8 / 2.88** **TRILLIUM TELEPHONE SYSTEMS INC.** **GEN**
603 MARCH ROAD
KANATA ON K2K 2M5

Generator No: ON0424800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 92,93
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

29 **10 of 19** **W/135.6** **84.8 / 2.88** **TRILLIUM TELEPHONE SYSTEMS INC. 38-102** **GEN**
603 MARCH ROAD
KANATA ON K2K 2M5

Generator No: ON0424800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

29 **11 of 19** **W/135.6** **84.8 / 2.88** **TRILLIUM TELEPHONE (OUT OF BUS)** **GEN**
603 MARCH ROAD
KANATA ON K2K 2M5

Generator No: ON0424800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	12 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORPORATION 28-807 603 MARCH ROAD C/O 600 MARCH RD., P.O. BOX 13600 KANATA ON K2K 2M5	GEN

Generator No: ON1052001
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 92,93,94,95,96,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	13 of 19	W/135.6	84.8 / 2.88	Tundra Semiconductor Corporation 603 March Road Kanata ON K2K 2M5	GEN

Generator No: ON9981810
SIC Code: 334410
SIC Description: Semiconductor and Other Electronic Component Manufacturing
Approval Years: 05
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	14 of 19	W/135.6	84.8 / 2.88	IDT Canada 603 March Rd Kanata ON K2K 2M5	SCT

Established: 01-JUL-79
Plant Size (ft²): 40000
Employment:

--Details--
Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	15 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No: 20312300041
Status: C
Report Type: Standard Report
Report Date: 26-NOV-20
Date Received: 23-NOV-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9252848
Y: 45.3478313

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	16 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No:	20312300041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-NOV-20	**Search Radius (km):**	.25
Date Received:	23-NOV-20	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	17 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No:	20312300041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-NOV-20	**Search Radius (km):**	.25
Date Received:	23-NOV-20	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	18 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No:	20312300041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-NOV-20	**Search Radius (km):**	.25
Date Received:	23-NOV-20	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	19 of 19	W/135.6	84.8 / 2.88	603 March Rd Kanata ON K2K 2M5	EHS

Order No:	21102800425	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	02-NOV-21	**Search Radius (km):**	.25
Date Received:	28-OCT-21	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	1 of 1	WSW/141.1	85.7 / 3.80	D.I.R. Investments Inc. Ottawa ON K0A 1A0	ECA

Approval No:	2390-6NBQN4	**MOE District:**	Ottawa
Approval Date:	2006-04-03	**City:**	
Status:	Approved	**Longitude:**	-75.92376
Record Type:	ECA	**Latitude:**	45.346516
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: D.I.R. Investments Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8134-6MRTG9-14.pdf
PDF Site Location:

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31 | 1 of 1 | ESE/152.1 | 77.9 / -4.05 | **Broccolini Construction Ottawa Inc.**
515 Legget Drive
Ottawa ON K2K 3G4 | GEN

Generator No: ON3449897
SIC Code: 236210, 235220
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION, 235220
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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32 | 1 of 16 | S/155.3 | 82.9 / 0.95 | **EXCALIBUR SYSTEMS LTD.**
50 Hines Rd
Kanata ON K2K 2M5 | SCT

Established: 1988
Plant Size (ft²): 10000
Employment: 21

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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32 | 2 of 16 | S/155.3 | 82.9 / 0.95 | **HUBER & SUHNER CANADA**
50 HINES ROAD
KANATA ON K2K 2M5 | GEN

Generator No: ON2494100
SIC Code: 4821
SIC Description: TELECOMMUN. CARRRIERS
Approval Years: 99,00,01,03
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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32 | **3 of 16** | **S/155.3** | **82.9 / 0.95** | **HUBER & SUHNER CANADA**
50 HINES ROAD
KANATA ON K2K 2M5 | **GEN**

Generator No: ON2494100
SIC Code:
SIC Description:
Approval Years: 02
PO Box No:
Country:

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

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32 | **4 of 16** | **S/155.3** | **82.9 / 0.95** | **HUBER & SUHNER CANADA**
50 HINES ROAD
KANATA ON K2K 2M5 | **GEN**

Generator No: ON2494100
SIC Code:
SIC Description:
Approval Years: 04
PO Box No:
Country:

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

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32 | **5 of 16** | **S/155.3** | **82.9 / 0.95** | **DRS EW & Network Systems**
50 Hines Rd
Kanata ON K2K 2M5 | **SCT**

Established: 1988
Plant Size (ft²): 10000
Employment: 25

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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32 | **6 of 16** | **S/155.3** | **82.9 / 0.95** | **WorkDynamics Technologies**
50 Hines Rd Suite 220
Kanata ON K2K 2M5 | **SCT**

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

Established: 01-OCT-98
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

32	7 of 16	S/155.3	82.9 / 0.95	**DRS EW & Network Systems (Canada) Ltd.** **50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa** **ON**	EBR

EBR Registry No: IA04E1366
Ministry Ref No: 5540-654NXU
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 22, 2005
Proposal Date: September 24, 2004
Year: 2004
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: DRS EW & Network Systems (Canada) Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road, Suite 200, Ottawa Ontario, K2K 2M5
Comment Period:
URL:

Site Location Details:

50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa

32	8 of 16	S/155.3	82.9 / 0.95	**Power Integrations Canada Inc.** **50 Hines Rd Suite 240** **Kanata ON K2K 2M5**	SCT

Established: 01-AUG-00
Plant Size (ft²):
Employment:

--Details--
Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

32	9 of 16	S/155.3	82.9 / 0.95	**OneChip Photonics Inc.** **50 Hines Rd Suite 200** **Kanata ON K2K 2M5**	SCT

Established: 8/1/2005
Plant Size (ft²): 17000
Employment:

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

--Details--
Description: Commercial and Service Industry Machinery Manufacturing
SIC/NAICS Code: 333310

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32 ***10 of 16*** ***S/155.3*** ***82.9 / 0.95*** ***Cyrium Technologies Incorporated*** ***EBR***
50 Hines Road Unit Suite 200 Ottawa K2K 2M5
CITY OF OTTAWA
ON

EBR Registry No: 010-9829
Ministry Ref No: 5633-84JKT3
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 07, 2011
Proposal Date: April 27, 2010
Year: 2010
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Cyrium Technologies Incorporated
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road , Suite 200, Kanata Ontario, Canada K2K 2M5
Comment Period:
URL:

Site Location Details:

50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA

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

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32 ***11 of 16*** ***S/155.3*** ***82.9 / 0.95*** ***Cyrium Technologies Incorporated*** ***CA***
50 Hines Rd Kanata
Ottawa ON

Certificate #: 0093-89LSKT
Application Year: 2010
Issue Date: 12/15/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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32 ***12 of 16*** ***S/155.3*** ***82.9 / 0.95*** ***DRS EW & Network Systems (Canada) Ltd.*** ***CA***
50 Hines Road, Suite 200
Ottawa ON

Certificate #: 0429-69NPJ2
Application Year: 2005
Issue Date: 2/16/2005
Approval Type: Air
Status: Approved

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

Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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32 | ***13 of 16*** | ***S/155.3*** | ***82.9 / 0.95*** | ***Merge Healthcare Incorporated*** ***50 Hines Rd Suite 120*** ***Kanata ON K2K 2M5*** | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

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32 | ***14 of 16*** | ***S/155.3*** | ***82.9 / 0.95*** | ***GaN Systems Inc.*** ***50 Hines road, suite 204*** ***Ottawa ON*** | ***GEN***

Generator No: ON8149211
SIC Code: 334290
SIC Description: OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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32 | ***15 of 16*** | ***S/155.3*** | ***82.9 / 0.95*** | ***Cyrium Technologies Incorporated*** ***50 Hines Rd Kanata*** ***Ottawa ON*** | ***ECA***

Approval No: 0093-89LSKT
Approval Date: 2010-12-15
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Cyrium Technologies Incorporated

MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

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

Address: 50 Hines Rd Kanata
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5633-84JKT3-14.pdf
PDF Site Location:

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32 **16 of 16** **S/155.3** **82.9 / 0.95** **DRS EW & Network Systems (Canada) Ltd.**
50 Hines Road, Suite 200
Ottawa ON K2K 2M5
ECA

Approval No: 0429-69NPJ2
Approval Date: 2005-02-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: DRS EW & Network Systems (Canada) Ltd.
Address: 50 Hines Road, Suite 200
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5540-654NXU-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

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33 **1 of 1** **W/165.4** **84.9 / 3.02** **595 March Road, Block E**
Kanata ON
EHS

Order No: 20071130013
Status: C
Report Type: CAN - Complete Report
Report Date: 12/5/2007
Date Received: 11/30/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory
Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -75.925221
Y: 45.347369

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34 **1 of 7** **SSW/169.0** **84.8 / 2.92** **TeleWatch Monitoring Services**
84 Hines Rd Suite 130
Kanata ON K2K 3G3
SCT

Established: 2003
Plant Size (ft²):
Employment:

--Details--
Description: Other Scientific and Technical Consulting Services
SIC/NAICS Code: 541690

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

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34 **2 of 7** **SSW/169.0** **84.8 / 2.92** **Metconnex Inc.**
84 Hines Road Suite 260
GEN

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

Generator No: ON3229484
SIC Code: 339990
SIC Description: All Other Miscellaneous Manufacturing
Approval Years: 06
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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34 **3 of 7** **SSW/169.0** **84.8 / 2.92** **Sidense Corp.** **84 Hines Rd Suite 260** **Kanata ON K2K 3G3** **SCT**

Established: 01-AUG-04
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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34 **4 of 7** **SSW/169.0** **84.8 / 2.92** **Skyworks Solutions (Test Lab)** **84 Hines Rd, Suite 100** **Kanata ON K2K 3G3** **GEN**

Generator No: ON9560250
SIC Code: 417310
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS
Approval Years: 2016
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

---

34 **5 of 7** **SSW/169.0** **84.8 / 2.92** **Skyworks Solutions Inc** **100-84 Hines Road** **Kanata ON K2K 3G3** **GEN**

Generator No: ON7912119
SIC Code: 417310
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL

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

Approval Years: 2016
PO Box No:
Country: Canada
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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34 ***6 of 7*** ***SSW/169.0*** ***84.8 / 2.92*** ***Skyworks Solutions Inc*** ***GEN***
100-84 Hines Road
Kanata ON K2K 3G3

Generator No: ON7912119
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

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34 ***7 of 7*** ***SSW/169.0*** ***84.8 / 2.92*** ***Skyworks Solutions Inc*** ***GEN***
100-84 Hines Road
Kanata ON K2K 3G3

Generator No: ON7912119
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

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35 ***1 of 2*** ***NNE/169.3*** ***75.4 / -6.50*** ***INSTANTEL INC.*** ***SCT***
362 TERRY FOX DR
KANATA ON K2K 2P5

Established: 1982
Plant Size (ft²): 1200
Employment: 50

--Details--
Description: MEASURING AND CONTROLLING DEVICES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3829

Description: SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS
SIC/NAICS Code: 3841

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
35	2 of 2	NNE/169.3	75.4 / -6.50	Coyle Publishing Inc. 362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	SCT

Established: 01-JAN-88
Plant Size (ft²): 1000
Employment:

--Details--
Description: Periodical Publishers
SIC/NAICS Code: 511120

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	1 of 12	SW/173.5	85.9 / 3.95	WILLIAM S. BURNSIDE (CANADA) LIMITED 88 HINES ROAD (SWM) KANATA ON K2K 2T8	CA

Certificate #: 3-0347-98-
Application Year: 98
Issue Date: 6/12/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	2 of 12	SW/173.5	85.9 / 3.95	Flexus Electronics Inc. 88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SCT

Established: 01-AUG-91
Plant Size (ft²): 7000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	3 of 12	SW/173.5	85.9 / 3.95	Flexus Inc. 88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SCT

Established: 9/1/1991
Plant Size (ft²): 7000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

---

36 ***4 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***Telemus Inc.*** ***GEN***
88 Hines Road
Ottawa ON K2K 2T8

Generator No: ON7263654 ***Status:***
SIC Code: 335990 ***Co Admin:***
SIC Description: All Other Electrical Equipment and Component Manufacturing ***Choice of Contact:***
Approval Years: 04,05,06 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

36 ***5 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***Telemus Inc.*** ***SCT***
88 Hines Rd
Kanata ON K2K 2T8

Established: 1994
Plant Size (ft²):
Employment:

--Details--
Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Engineering Services
SIC/NAICS Code: 541330

---

36 ***6 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC.*** ***GEN***
88 HINES RD
KANATA ON

Generator No: ON5315252 ***Status:***
SIC Code: 335990 ***Co Admin:***
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND ***Choice of Contact:***

COMPONENT MANUFACTURING

Approval Years: 2013
PO Box No:
Country:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

---

36 | ***7 of 12*** | ***SW/173.5*** | ***85.9 / 3.95*** | ***Ultra Electronics***
88 Hines Rd
Kanata ON K2K 2T8 | ***SCT***

Established: 01-AUG-94
Plant Size (ft²):
Employment:

--Details--
Description: Engineering Services
SIC/NAICS Code: 541330

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

---

36 | ***8 of 12*** | ***SW/173.5*** | ***85.9 / 3.95*** | ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON K2K 2T8 | ***GEN***

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

---

36 ***9 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON K2K 2T8 ***GEN***

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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36 ***10 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON K2K 2T8 ***GEN***

Generator No: ON5315252
Status:

SIC Code:	335990	**Co Admin:**	
SIC Description:	All Other Electrical Equipment and Component Manufacturing	**Choice of Contact:**	
Approval Years:	2010	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS

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36 ***11 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***ULTRA ELECTRONICS 88 HINES RD OTTAWA ON K2K2T8*** ***GEN***

Generator No:	ON4360723	**Status:**	
SIC Code:	334410	**Co Admin:**	
SIC Description:	SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

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36 ***12 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2B8*** ***GEN***

Generator No:	ON5315252	**Status:**	
SIC Code:	335990	**Co Admin:**	Nguyen Tieu
SIC Description:	ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2014	**Phone No Admin:**	613-591-0768 Ext.

PO Box No: | **Contam. Facility:** No
Country: Canada | **MHSW Facility:** No

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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37 | ***1 of 3*** | ***SW/173.7*** | ***85.9 / 3.95*** | ***Ultra Electronics Canada Defence Inc.*** | ***GEN***
88 Hines Road
Ottawa ON

Generator No: ON7263654 | **Status:**
SIC Code: 335990 | **Co Admin:**
SIC Description: All Other Electrical Equipment and Component Manufacturing | **Choice of Contact:**
Approval Years: 2009 | **Phone No Admin:**
PO Box No: | **Contam. Facility:**
Country: | **MHSW Facility:**

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

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37 | ***2 of 3*** | ***SW/173.7*** | ***85.9 / 3.95*** | ***Ultra Electronics TCS Inc.*** | ***GEN***

88 Hines Road
Ottawa ON

Generator No:	ON7263654	***Status:***	
SIC Code:	335990	***Co Admin:***	
SIC Description:	All Other Electrical Equipment and Component Manufacturing	***Choice of Contact:***	
Approval Years:	2010	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

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37 ***3 of 3*** ***SW/173.7*** ***85.9 / 3.95***

Ultra Electronics TCS Inc.
88 Hines Road
Ottawa ON

GEN

Generator No:	ON7263654	***Status:***	
SIC Code:	335990	***Co Admin:***	
SIC Description:	All Other Electrical Equipment and Component Manufacturing	***Choice of Contact:***	
Approval Years:	2011	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	122

Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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38 | **1 of 1** | **WSW/179.6** | **85.8 / 3.89** | **591 MARCH ROAD lot 9 con 3 KANATA ON** | **WWIS**

Well ID: 7151742
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z107013
Tag: A094409
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 9/22/2010
Selected Flag: True
Abandonment Rec:
Contractor: 6964
Form Version: 7
Owner:
Street Name: 591 MARCH ROAD
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/715\7151742.pdf

Additional Detail(s) (Map)

Well Completed Date: 2010/07/20
Year Completed: 2010
Depth (m): 7.85
Latitude: 45.3465988786813
Longitude: -75.9245118807105
Path: 715\7151742.pdf

Bore Hole Information

Bore Hole ID: 1003338591
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 20-Jul-2010 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 81.441329
Elevrc:
Zone: 18
East83: 427575.00
North83: 5021870.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1003478980

Layer: 5
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 16
Mat2 Desc: DOLOMITE
Mat3:
Mat3 Desc:
Formation Top Depth: 1.899999976158142
Formation End Depth: 7.849999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478979
Layer: 4
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.4199999570846558
Formation End Depth: 1.899999976158142
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478977
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 84
Mat3 Desc: SILTY
Formation Top Depth: 0.03999999910593033
Formation End Depth: 0.46000000834465027
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478978
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3: 84
Mat3 Desc: SILTY
Formation Top Depth: 0.46000000834465027
Formation End Depth: 1.4199999570846558
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1003478976
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	0.03999999910593033
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003478984
Layer:	2
Plug From:	6
Plug To:	7.84999990463257
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003478983
Layer:	1
Plug From:	0
Plug To:	6
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003478989
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1003478975
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003478986
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	6.34999990463257
Casing Diameter:	3.5
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003478987
Layer: 1
Slot: 10
Screen Top Depth: 6.34999990463257
Screen End Depth: 7.84999990463257
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.09999990463257

Water Details

Water ID: 1003478985
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003478981
Diameter: 7.5
Depth From: 0.0
Depth To: 1.8799999952316284
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1003478982
Diameter: 5.699999809265137
Depth From: 1.8799999952316284
Depth To: 7.849999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

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39 ***1 of 1*** ***SSE/189.5*** ***80.9 / -1.02*** ***ON*** ***BORE***

Borehole ID: 609771
OGF ID: 215511386
Status:
Type: Borehole
Use:
Completion Date: NOV-1952
Static Water Level: -13.0
Primary Water Use:
Sec. Water Use:
Total Depth m: 18.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 82.3
Elev Reliabil Note:
DEM Ground Elev m: 78.2
Concession:
Location D:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.343425
Longitude DD: -75.918645
UTM Zone: 18
Easting: 428031
Northing: 5021512
Location Accuracy:
Accuracy: Not Applicable

Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218384040	***Mat Consistency:***	
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:	18.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sandstone	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			

Stratum Description: SANDSTONE. 315.0 FEET.GRAVEL. BEDROCK. BEDROCK,LIMESTONE. 3502204704500000001600000 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218384039	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			

Stratum Description: SOIL. BROWN.

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 02279 NTS_Sheet:
Confiden 1:

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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40 ***1 of 1*** ***SSE/189.6*** ***80.9 / -1.02*** ***lot 8 con 3 ON*** ***WWIS***

Well ID:	1503343	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	12/1/1952
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	008
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503343.pdf

Additional Detail(s) (Map)

Well Completed Date:	1952/11/25
Year Completed:	1952
Depth (m):	18.8976
Latitude:	45.3434237229267
Longitude:	-75.9186447387699
Path:	150\1503343.pdf

Bore Hole Information

Bore Hole ID:	10025386	**Elevation:**	78.229843
DP2BR:	3.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	428030.60
Code OB Desc:	Bedrock	**North83:**	5021512.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	25-Nov-1952 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996626
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996627
Layer:	2
Color:	

General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503343
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573956
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043524
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043525
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 62
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503343
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 30.0
Recommended Pump Depth:
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM

Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456237
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55.0
Water Found Depth UOM:	ft

---

41 | ***1 of 1*** | ***SE/191.0*** | ***79.6 / -2.36*** | ***3001 SOLANDT RD. KANATA ON*** | ***WWIS***

Well ID:	7296271	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	10/2/2017
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z262367	**Owner:**	
Tag:	A228985	**Street Name:**	3001 SOLANDT RD.
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	BLOCK 18
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7296271.pdf

Additional Detail(s) (Map)

Well Completed Date:	2017/08/30
Year Completed:	2017
Depth (m):	55.7784
Latitude:	45.3445114028557
Longitude:	-75.9165893549302
Path:	729\7296271.pdf

Bore Hole Information

Bore Hole ID:	1006747513	**Elevation:**	77.004211
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	428193.00
Code OB Desc:		**North83:**	5021631.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	30-Aug-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr

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

Overburden and Bedrock Materials Interval

Formation ID: 1006933918
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 75.0
Formation End Depth: 90.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933916
Layer: 2
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 45.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933919
Layer: 5
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2: 20
Mat2 Desc: QUARTZITE
Mat3:
Mat3 Desc:
Formation Top Depth: 90.0
Formation End Depth: 125.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933921

Layer:	7
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	20
Mat2 Desc:	QUARTZITE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	173.0
Formation End Depth:	183.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933917
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933920
Layer:	6
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	20
Mat2 Desc:	QUARTZITE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	125.0
Formation End Depth:	173.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933915
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006933959
Layer:	2
Plug From:	46
Plug To:	0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006933958
Layer:	1
Plug From:	56
Plug To:	46
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006933957
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	SURGE

Pipe Information

Pipe ID:	1006933913
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Screen

Screen ID:	1006933929
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1006933914
Pump Set At:	140.0
Static Level:	6.0
Final Level After Pumping:	88.5999984741211
Recommended Pump Depth:	140.0
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	7.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0

Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1006933945
Test Type: Recovery
Test Duration: 20
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933947
Test Type: Recovery
Test Duration: 25
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933948
Test Type: Draw Down
Test Duration: 30
Test Level: 76.9000015258789
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933950
Test Type: Draw Down
Test Duration: 40
Test Level: 80.4000015258789
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933942
Test Type: Draw Down
Test Duration: 15
Test Level: 63.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933954
Test Type: Draw Down
Test Duration: 60
Test Level: 88.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933955
Test Type: Recovery
Test Duration: 60
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933930
Test Type: Draw Down
Test Duration: 1
Test Level: 16.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933940
Test Type: Draw Down
Test Duration: 10
Test Level: 57.79999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933951
Test Type: Recovery
Test Duration: 40
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933932
Test Type: Draw Down
Test Duration: 2
Test Level: 25.200000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933941
Test Type: Recovery
Test Duration: 10
Test Level: 17.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933946
Test Type: Draw Down
Test Duration: 25
Test Level: 74.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933933
Test Type: Recovery
Test Duration: 2
Test Level: 53.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933936

Test Type: Draw Down
Test Duration: 4
Test Level: 37.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933938
Test Type: Draw Down
Test Duration: 5
Test Level: 41.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933939
Test Type: Recovery
Test Duration: 5
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933943
Test Type: Recovery
Test Duration: 15
Test Level: 10.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933935
Test Type: Recovery
Test Duration: 3
Test Level: 46.29999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933952
Test Type: Draw Down
Test Duration: 50
Test Level: 84.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933931
Test Type: Recovery
Test Duration: 1
Test Level: 62.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933944
Test Type: Draw Down
Test Duration: 20
Test Level: 71.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1006933934
Test Type:	Draw Down
Test Duration:	3
Test Level:	32.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933937
Test Type:	Recovery
Test Duration:	4
Test Level:	40.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933949
Test Type:	Recovery
Test Duration:	30
Test Level:	6.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933953
Test Type:	Recovery
Test Duration:	50
Test Level:	6.0
Test Level UOM:	ft

Water Details

Water ID:	1006933926
Layer:	3
Kind Code:	8
Kind:	Untested
Water Found Depth:	173.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1006933924
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	75.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1006933925
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	125.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006933923
Diameter:	6.0
Depth From:	56.0
Depth To:	183.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1006933922
Diameter:	9.75
Depth From:	0.0
Depth To:	56.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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42 | ***1 of 1*** | ***NW/196.1*** | ***80.9 / -1.02*** | ***706, 710, and 714 March Road Ottawa ON K2K 2R9*** | ***EHS***

Order No:	21092800629	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	01-OCT-21	***Search Radius (km):***	.25
Date Received:	28-SEP-21	***X:***	-75.9253545
Previous Site Name:		***Y:***	45.3508717
Lot/Building Size:			
Additional Info Ordered:			

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43 | ***1 of 1*** | ***NW/199.2*** | ***80.8 / -1.11*** | ***710 March Road Kanata ON K2K 2V9*** | ***EHS***

Order No:	20180725032	***Nearest Intersection:***	
Status:	C	***Municipality:***	Formerly in Township of March, now in City of Kanata, Regional Municipality of Ottawa-Carleton
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	31-JUL-18	***Search Radius (km):***	.25
Date Received:	25-JUL-18	***X:***	-75.925508
Previous Site Name:	977762 Ontario Lts. under deed of sale registered as Instrument Number 811083 on December 22, 1992.	***Y:***	45.350826
Lot/Building Size:	236,980 square feet (5.44 acres) commercial development site		
Additional Info Ordered:			

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44 | ***1 of 1*** | ***S/200.0*** | ***82.2 / 0.25*** | ***495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K*** | ***EHS***

Order No:	20190916105	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	19-SEP-19	***Search Radius (km):***	.25
Date Received:	16-SEP-19	***X:***	-75.920977
Previous Site Name:		***Y:***	45.343533
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	1 of 17	NNE/202.7	73.9 / -8.05	VOLEX CAPULUM INC. 360 TERRY FOX DR KANATA ON K2K 2P5	SCT

Established: 1984
Plant Size (ft²): 20000
Employment: 110

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Description: Steel Wire Drawing
SIC/NAICS Code: 331222

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Communication and Energy Wire and Cable Manufacturing
SIC/NAICS Code: 335920

Description: Wiring Device Manufacturing
SIC/NAICS Code: 335930

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	2 of 17	NNE/202.7	73.9 / -8.05	VOLEX CANADA INC. 360 Terry Fox Dr Kanata ON K2K 2P5	SCT

Established: 1984
Plant Size (ft²): 20000
Employment: 150

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	3 of 17	NNE/202.7	73.9 / -8.05	Sciemetric Instruments Inc 360 Terry Fox Dr Kanata ON K2K 2P5	SCT

Established: 9/1/1981
Plant Size (ft²):
Employment:

--Details--
Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	4 of 17	NNE/202.7	73.9 / -8.05	Kanata Research Park Corporation 360 Terry Fox Drive Ottawa ON	CA

Certificate #: 0835-5HTTNB
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	5 of 17	NNE/202.7	73.9 / -8.05	Filtran Limited 360 Terry Fox Dr Kanata ON K2K 2P5	SCT

Established: 01-SEP-69
Plant Size (ft²): 16000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Motor and Generator Manufacturing
SIC/NAICS Code: 335312

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	6 of 17	NNE/202.7	73.9 / -8.05	Emcon Emanation Control Ltd. 360 Terry Fox Dr Nepean ON K2E	SCT

Established: 01-JUL-85
Plant Size (ft²): 18000
Employment:

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Wood Office Furniture, including Custom Architectural Woodwork, Manufacturing
SIC/NAICS Code: 337213

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	7 of 17	NNE/202.7	73.9 / -8.05	Filtran Limited 360 Terry Fox Drive Ottawa CITY OF OTTAWA ON	EBR

EBR Registry No: 011-6639
Ministry Ref No: 8890-8V3N38
Notice Type: Instrument Decision
Notice Stage:
Notice Date: August 14, 2014
Proposal Date: June 25, 2012
Year: 2012
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Filtran Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 360 Terry Fox Drive, Ottawa Ontario, Canada K2K 2P5
Comment Period:
URL:

Site Location Details:

360 Terry Fox Drive Ottawa CITY OF OTTAWA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	8 of 17	NNE/202.7	73.9 / -8.05	Filtran Ltd 360 Terry Fox Dr. Kanata ON K2K 2P5	GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	9 of 17	NNE/202.7	73.9 / -8.05	Filtran Ltd 360 Terry Fox Dr. Kanata ON K2K 2P5	GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213

Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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45 **10 of 17** **NNE/202.7** **73.9 / -8.05** **Filtran Ltd**
360 Terry Fox Dr.
Kanata ON K2K 2P5
GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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45 **11 of 17** **NNE/202.7** **73.9 / -8.05** **Filtran Ltd**
360 Terry Fox Dr.
Kanata ON
GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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45 **12 of 17** **NNE/202.7** **73.9 / -8.05** **Kanata Research Park Corporation** **ECA**
360 Terry Fox Drive
Ottawa ON K2K 2X3

Approval No: 0835-5HTTNB
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 360 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5108-5DXQRJ-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.92063
Latitude: 45.350746
Geometry X:
Geometry Y:

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45 **13 of 17** **NNE/202.7** **73.9 / -8.05** **Filtran Ltd** **GEN**
360 Terry Fox Dr.
Kanata ON K2K 2P5

Generator No: ON6864227
SIC Code: 335990
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Don Potvin
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-226-1626 Ext.243
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

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

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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45 | **14 of 17** | **NNE/202.7** | **73.9 / -8.05** | **Artaflex Ottawa Inc.**
360 Terry Fox Drive
Kanata ON K2K 2P5 | **GEN**

Generator No: ON3977448
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

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45 | **15 of 17** | **NNE/202.7** | **73.9 / -8.05** | **360 Terry Fox Drive**
Kanata ON K2K 2P5 | **EHS**

Order No: 20190305257
Status: C
Report Type: Standard Report
Report Date: 07-MAR-19
Date Received: 05-MAR-19
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.920166
Y: 45.351072

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45 | **16 of 17** | **NNE/202.7** | **73.9 / -8.05** | **Artaflex Ottawa Inc.**
360 Terry Fox Drive
Kanata ON K2K 2P5 | **GEN**

Generator No: ON3977448
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

---

45 | **17 of 17** | **NNE/202.7** | **73.9 / -8.05** | **Artaflex Ottawa Inc.**
360 Terry Fox Drive
Kanata ON K2K 2P5 | **GEN**

Generator No: ON3977448
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

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46 ***1 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***NEWBRIDGE NETWORKS CORPORATION*** ***CA***
359 TERRY FOX DRIVE
KANATA CITY ON K2K 2E7

Certificate #: 8-4102-88-
Application Year: 88
Issue Date: 1/24/1990
Approval Type: Industrial air
Status: Approved in 1990
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CIRCUIT BOARD MANUF. EXHAUST
Contaminants:
Emission Control:

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46 ***2 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***ELCOMBE SYSTEMS LIMITED*** ***SCT***
359 TERRY FOX DR
KANATA ON K2K 2E7

Established: 1991
Plant Size (ft²): 0
Employment: 25

--Details--
Description: COMMUNICATIONS EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3669

Description: Other Communications Equipment Manufacturing
SIC/NAICS Code: 334290

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46 ***3 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***359 Terry Fox Drive*** ***CA***
Kanata ON K2K 2E7

Certificate #: 8-4102-88-906
Application Year: 01
Issue Date: 4/6/01
Approval Type: Industrial air
Status: Approved
Application Type: Revocation
Client Name: Newbridge Networks Corporation
Client Address: 600 March Road, P.O. Box 13600
Client City: Kanata
Client Postal Code: K2K 2E6
Project Description: Removal of exhaust six (6) exhaust fans venting facilities for manufacturing electronic circuits.
Contaminants:
Emission Control:

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46 ***4 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***NEWBRIDGE NETWORKS CORPORATION*** ***GEN***
359 TERRY FOX DRIVE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				KANATA ON K2K 2E7	

Generator No: ON1052000
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 88,89,90
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
46	5 of 21	NE/207.8	75.9 / -6.07	NEWBRIDGE NETWORKS CORPORATION 28-523 359 TERRY FOX DRIVE KANATA ON K2K 2E7	GEN

Generator No: ON1052000
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 94,95,96
PO Box No:
Country:

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

Detail(s)

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
46	6 of 21	NE/207.8	75.9 / -6.07	359 Terry Fox Drive Ottawa ON	EHS

Order No: 20070213030
Status: C
Report Type: CAN - Complete Report
Report Date: 2/15/2007
Date Received: 2/13/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -75.919083
Y: 45.349895

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
46	7 of 21	NE/207.8	75.9 / -6.07	Smart Technologies Inc. 359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	EBR

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

EBR Registry No: IA05E1750
Ministry Ref No: 6235-6HCPAA
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 23, 2007
Proposal Date: November 15, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Smart Technologies Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 359 Terry Fox Drive, Ottawa Ontario, K2K 2E7
Comment Period:
URL:

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

Site Location Details:

359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa

46	8 of 21	NE/207.8	75.9 / -6.07	359 Terry Fox Drive Ottawa ON	EHS

Order No: 20080211010
Status: C
Report Type: Complete Report
Report Date: 2/20/2008
Date Received: 2/11/2008
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.919083
Y: 45.349895

46	9 of 21	NE/207.8	75.9 / -6.07	Smart Technologies Inc 359 Terry Fox Drive - North Kanata ON	GEN

Generator No: ON3214080
SIC Code: 334290
SIC Description: Other Communications Equipment Manufacturing
Approval Years: 06,07,08
PO Box No:
Country:

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

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

---

46 | **10 of 21** | **NE/207.8** | **75.9 / -6.07** | **Smart Technologies Inc.**
359 Terry Fox Drive
Ottawa ON | **CA**

Certificate #: 2247-6UXHQW
Application Year: 2007
Issue Date: 1/4/2007
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

46 | **11 of 21** | **NE/207.8** | **75.9 / -6.07** | **Kanata Research Park Corporation**
359 Terry Fox Drive
Ottawa ON | **CA**

Certificate #: 6748-5HTUE5
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

46 | **12 of 21** | **NE/207.8** | **75.9 / -6.07** | **Sciemetric Instruments Inc.**
359 Terry Fox Dr
Kanata ON K2K 2E7 | **SCT**

Established: 01-JUN-81
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing

SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

46 ***13 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Pleora Technologies Inc.***
359 Terry Fox Dr Unit 230
Kanata ON K2K 2E7 ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

---

46 ***14 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Smart Technologies Inc.***
359 Terry Fox Drive
Ottawa ON K2K 2E7 ***ECA***

Approval No:	2247-6UXHQW	***MOE District:***	Ottawa
Approval Date:	2007-01-04	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	-75.9184
Record Type:	ECA	***Latitude:***	45.349728
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Mississippi Valley	***Geometry Y:***	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Smart Technologies Inc.
Address: 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6235-6HCPAA-14.pdf
PDF Site Location:

---

46 ***15 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Kanata Research Park Corporation***
359 Terry Fox Drive
Ottawa ON K2K 2X3 ***ECA***

Approval No:	6748-5HTUE5	***MOE District:***	Ottawa
Approval Date:	2003-01-18	***City:***	
Status:	Approved	***Longitude:***	-75.9184
Record Type:	ECA	***Latitude:***	45.349728
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Mississippi Valley	***Geometry Y:***	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2480-5DXNRZ-14.pdf

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

PDF Site Location:

---

46 ***16 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Electronic Distributors International Inc.*** ***GEN***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7

Generator No:	ON3467371	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2018	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders

---

46 ***17 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Public Health Agency of Canada - Kanata*** ***GEN***
359 Terry Fox Drive
Kanata ON K2K2E7

Generator No:	ON7174371	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2018	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	261 H
Waste Class Desc:	Pharmaceuticals
Waste Class:	261 L
Waste Class Desc:	Pharmaceuticals
Waste Class:	263 A
Waste Class Desc:	Misc. waste organic chemicals

---

46 ***18 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Electronic Distributors International Inc.*** ***GEN***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7

Generator No:	ON3467371	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Jul 2020	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	

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

Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

---

46 ***19 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Public Health Agency of Canada - Kanata NESS***
359 Terry Fox Drive
Kanata ON K2K2E7 ***GEN***

Generator No: ON7174371 ***Status:*** Registered
SIC Code: ***Co Admin:***
SIC Description: ***Choice of Contact:***
Approval Years: As of Jul 2020 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 261 H
Waste Class Desc: Pharmaceuticals

Waste Class: 261 L
Waste Class Desc: Pharmaceuticals

Waste Class: 263 A
Waste Class Desc: Misc. waste organic chemicals

---

46 ***20 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Public Health Agency of Canada - Kanata NESS***
359 Terry Fox Drive
Kanata ON K2K2E7 ***GEN***

Generator No: ON7174371 ***Status:*** Registered
SIC Code: ***Co Admin:***
SIC Description: ***Choice of Contact:***
Approval Years: As of Nov 2021 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 263 A
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 261 H
Waste Class Desc: Pharmaceuticals

Waste Class: 261 L
Waste Class Desc: Pharmaceuticals

---

46 | ***21 of 21*** | ***NE/207.8*** | ***75.9 / -6.07*** | ***Electronic Distributors International Inc.***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7 | ***GEN***

Generator No: ON3467371
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

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

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 262 L
Waste Class Desc: Detergents and soaps

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

---

47 | ***1 of 14*** | ***ESE/209.2*** | ***79.0 / -2.94*** | ***SR TELECOM***
425 LEGGET DR
KANATA ON K2K 2W2 | ***SCT***

Established: 1986
Plant Size (ft²): 0
Employment: 200

--Details--
Description: RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT
SIC/NAICS Code: 3663

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47 | ***2 of 14*** | ***ESE/209.2*** | ***79.0 / -2.94*** | ***425 Legget Dr***
Kanata ON K2K 2W2 | ***EHS***

Order No: 20010711004
Status: C

Nearest Intersection:
Municipality:

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

Report Type:	Complete Report	**Client Prov/State:**	ON
Report Date:	7/16/01	**Search Radius (km):**	0.25
Date Received:	7/11/01	**X:**	-75.914926
Previous Site Name:		**Y:**	45.344584
Lot/Building Size:			
Additional Info Ordered:			

---

47 **3 of 14** **ESE/209.2** **79.0 / -2.94**

SR TELECOM INC.
425 LEGGET DRIVE
KANATA ON K2K 2W2

GEN

Generator No:	ON2171800	**Status:**	
SIC Code:	3351	**Co Admin:**	
SIC Description:	TELECOMMUNICATIONS	**Choice of Contact:**	
Approval Years:	96,97,98,99	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 **4 of 14** **ESE/209.2** **79.0 / -2.94**

C-MAC KANATA INC.
425 LEGGET DRIVE
KANATA ON K2K 2W2

GEN

Generator No:	ON2171800	**Status:**	
SIC Code:	3351	**Co Admin:**	
SIC Description:	TELECOMMUNICATIONS	**Choice of Contact:**	
Approval Years:	00,01	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 **5 of 14** **ESE/209.2** **79.0 / -2.94**

C-MAC KANATA INC.
425 LEGETT DRIVE
KANATA ON K2K 2W2

GEN

Generator No:	ON2171800	**Status:**	
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	02	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 | **6 of 14** | **ESE/209.2** | **79.0 / -2.94** | **C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY**
425 LEGETT DRIVE
KANATA ON | **GEN**

Generator No: ON2171800
SIC Code: 334110
SIC Description: Computer & Peripheral Equipment Mfg.
Approval Years: 03,04,05,06
PO Box No:
Country:

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

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148

Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 | **7 of 14** | **ESE/209.2** | **79.0 / -2.94** | **Solectron EMS Canada**
425 Legget Dr
Kanata ON K2K 2W2 | **SCT**

Established: 1977
Plant Size (ft²):
Employment: 300

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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47 | **8 of 14** | **ESE/209.2** | **79.0 / -2.94** | **425 Legget Drive**
Ottawa ON | **EHS**

Order No: 20120213010
Status: C
Report Type: Custom Report
Report Date: 2/17/2012 10:02:42 AM
Date Received: 2/13/2012 10:00:24 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.915606
Y: 45.345057

---

47 | **9 of 14** | **ESE/209.2** | **79.0 / -2.94** | **AVAYA CANADA CORP**
425 LEGGET DRIVE
OTTAWA ON K2K 2W2 | **EASR**

Approval No: R-002-4150428271
Status: REGISTERED
Date: 2012-08-27
Record Type: EASR
Link Source: MOFA
Project Type: Standby Power System
Full Address:
Approval Type: EASR-Standby Power System
Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=1426
PDF URL:
PDF Site Location:

SWP Area Name: Mississippi Valley
MOE District: Ottawa
Municipality: OTTAWA
Latitude: 45.345882
Longitude: -75.91489
Geometry X:
Geometry Y:

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47 | **10 of 14** | **ESE/209.2** | **79.0 / -2.94** | **425 Legget Drive Property GP Inc.**
425 Legget Dr
Ottawa ON | **ECA**

Approval No: 6998-95YSRC
Approval Date: 2013-03-21
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS

MOE District: Ottawa
City:
Longitude: -75.91489
Latitude: 45.345882
Geometry X:
Geometry Y:

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

Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 425 Legget Drive Property GP Inc.
Address: 425 Legget Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2476-8VQN7M-14.pdf
PDF Site Location:

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47 | 11 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

---

47 | 12 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

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47 | 13 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

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47 | 14 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

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48 | 1 of 1 | W/216.8 | 85.8 / 3.86 | ON | BORE

Borehole ID:	609784	***Inclin FLG:***	No
OGF ID:	215511399	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	MAR-1953	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.346969
Total Depth m:	37.2	***Longitude DD:***	-75.925596
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	427491
Drill Method:		***Northing:***	5021912
Orig Ground Elev m:	85.3	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	82.3		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384078	***Mat Consistency:***	
Top Depth:	14.9	***Material Moisture:***	
Bottom Depth:	37.2	***Material Texture:***	
Material Color:	Black	***Non Geo Mat Type:***	
Material 1:	Sandstone	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SANDSTONE. 00120K. GRANITE. GREY. GRANITE. BLACK. 003050. BEDROCK. SEISMIC VELOCITY = **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218384077	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	14.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	CLAY.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02292 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator

Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

49 | **1 of 1** | **W/216.8** | **85.8 / 3.86** | **lot 9 con 3 ON** | **WWIS**

Well ID: 1503346
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 4/20/1953
Selected Flag: True
Abandonment Rec:
Contractor: 1802
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503346.pdf

Additional Detail(s) (Map)

Well Completed Date: 1953/03/06
Year Completed: 1953
Depth (m): 37.1856
Latitude: 45.3469681620258
Longitude: -75.9255952743531
Path: 150\1503346.pdf

Bore Hole Information

Bore Hole ID: 10025389
DP2BR: 49.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 06-Mar-1953 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 82.334884
Elevrc:
Zone: 18
East83: 427490.60
North83: 5021912.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 930996633
Layer: 2

Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 49.0
Formation End Depth: 122.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996632
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 49.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503346
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573959
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043531
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 122
Casing Diameter: 3
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043530
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:
Depth To: 49
Casing Diameter: 3
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503346
Pump Set At:
Static Level: 14.0
Final Level After Pumping: 30.0
Recommended Pump Depth:
Pumping Rate: 2.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933456240
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120.0
Water Found Depth UOM: ft

---

50 ***1 of 2*** ***SSW/217.9*** ***83.9 / 1.98*** ***COLONNADE DEVELOPMENT INC.***
60 HINES RD., PH. 1, SWM
KANATA ON K2K 2M5 ***CA***

Certificate #: 3-1606-98-
Application Year: 98
Issue Date: 10/26/1998
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

50 ***2 of 2*** ***SSW/217.9*** ***83.9 / 1.98*** ***COLONNADE DEVELOPMENT INC.***
SWM-60 HINES RD.PH.2
KANATA ON K2K 2M5 ***CA***

Certificate #: 3-1697-98-
Application Year: 98
Issue Date: 11/5/1998
Approval Type: Municipal sewage
Status: Cancelled
Application Type:

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

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

---

51 | ***1 of 1*** | ***ESE/219.5*** | ***79.0 / -2.97*** | ***370-450 Huntmar Drive Ottawa ON*** | ***EHS***

Order No:	21091500316	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	RSC Report - Quote	***Client Prov/State:***	ON
Report Date:	20-SEP-21	***Search Radius (km):***	.3
Date Received:	15-SEP-21	***X:***	-75.91494054
Previous Site Name:		***Y:***	45.34558141
Lot/Building Size:			
Additional Info Ordered:			

---

52 | ***1 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED CANADA INC. 3001 SOLANDT ROAD KANATA CITY ON K2K 2M8*** | ***CA***

Certificate #:	8-4021-94-
Application Year:	94
Issue Date:	4/14/1994
Approval Type:	Industrial air
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	DF-6218 DEVILBISS PAINT SPRAY BOOTH
Contaminants:	
Emission Control:	

---

52 | ***2 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED CANADA INC. 3001 SOLANDT ROAD KANATA CITY ON K2K 2M8*** | ***CA***

Certificate #:	8-4029-94-
Application Year:	94
Issue Date:	4/21/1994
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	EXHAUST FOR SPRAY BOOTH, COATING PROCESS
Contaminants:	Xylene, Ethyl Benzene, Toluene(Pentyl Methane)(Methyl Benzene), Methyl Ethyl Ketone (Butanone), Isopropyl Alcohol, Methyl Chloroform
Emission Control:	Panel Filter

---

52 | ***3 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED MARTIN CANADA INC 3001 SOLANDT RD*** | ***SCT***

KANATA ON K2K 2M8

Established: 1988
Plant Size (ft²): 0
Employment: 300

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

---

52 | ***4 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***Lockheed Martin Canada Inc.***
3001 Solandt Rd
Kanata ON K2K 2M8 | ***SCT***

Established: 01-AUG-88
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

---

52 | ***5 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***3001 Solandt Road***
Kanata ON K2K 2M8 | ***CA***

Certificate #: 6668-4J6PK6
Application Year: 00
Issue Date: 5/12/00
Approval Type: Industrial air
Status: Approved
Application Type: Amended CofA
Client Name: Lockheed Martin Canada Inc.
Client Address: 3001 Solandt Road
Client City: Kanata
Client Postal Code: K2K 2M8
Project Description: This is an application for an amendment to Air Certificate of Approval to add one conformal coater, one oven and one drip coater to be used between 2 - 3 hours per week..
Contaminants:
Emission Control:

---

52 | ***6 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 | ***GEN***

Generator No: ON0476102
SIC Code: 3359
SIC Description: OTHER COMMUN. & ELE.
Approval Years: 95,96,97,98,99,00,01,02,03,04,05,06,07,08
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

---

52 ***7 of 21*** ***SE/235.2*** ***79.8 / -2.08*** ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 ***GEN***

Generator No: ON0476102 ***Status:***
SIC Code: 336410 ***Co Admin:***
SIC Description: Aerospace Product and Parts Manufacturing ***Choice of Contact:***
Approval Years: 2009 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

---

52 **8 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.**
3001 Solandt Road
Ottawa ON K2K 2M8
EBR

EBR Registry No: 011-8066
Ministry Ref No: 0853-93TR59
Notice Type: Instrument Proposal
Notice Stage:
Notice Date:
Proposal Date: January 28, 2013
Year: 2013
Instrument Type: (EPA Part II.1) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name:
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3001 Solandt Road Ottawa Ontario Canada K2K 2M8
Comment Period:
URL:

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

Site Location Details:

3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA

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52 **9 of 21** **SE/235.2** **79.8 / -2.08** **LOCKHEED MARTIN CANADA**
3001 SOLANDT ROAD
KANATA ON K2K 2M8
GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2010
PO Box No:
Country:

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

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Desc: AMINES

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52 ***10 of 21*** ***SE/235.2*** ***79.8 / -2.08*** ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 ***GEN***

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 121

Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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52 | ***11 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***MORGUARD INVESTMENTS LTD.***
3001 SOLANDT STREET
KANATA ON | ***GEN***

Generator No: ON9884765
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2012
PO Box No:
Country:

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

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52 | ***12 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 | ***GEN***

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112

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

Waste Class Desc: ACID WASTE - HEAVY METALS

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52 **13 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.**
3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA
ON **EBR**

EBR Registry No: 011-8066
Ministry Ref No: 0853-93TR59
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 11, 2014
Proposal Date: January 28, 2013
Year: 2013
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lockheed Martin Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3001 Solandt Road, Ottawa Ontario, Canada K2K 2M8
Comment Period:
URL:

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

Site Location Details:

3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA

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52 **14 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.**
3001 Solandt Road
Ottawa ON **ECA**

Approval No: 3445-9FMN4B
Approval Date: 4/2/14
Status: Approved
Record Type:
Link Source:
SWP Area Name:
Approval Type:
Project Type: Air/Noise
Business Name: Lockheed Martin Canada Inc.
Address:
Full Address: 3001 Solandt Road Ottawa, Ontario
Full PDF Link:
PDF Site Location:

MOE District:
City: Ottawa
Longitude: -75.916666666666714036182384006679058074951171875
Latitude: 45.344166666666662877105409279465675354003906 25
Geometry X:
Geometry Y:

---

52 **15 of 21** **SE/235.2** **79.8 / -2.08** **3001 Solandt Road**
Kanata ON **EHS**

Order No: 20130513003
Status: C
Report Type: RSC Report (Urban)
Report Date: 21-MAY-13
Date Received: 13-MAY-13
Previous Site Name: unknown
Lot/Building Size: 5.13 acres
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos

Nearest Intersection:
Municipality: Kanata
Client Prov/State: ON
Search Radius (km): .3
X: -75.916515
Y: 45.344055

52 **16 of 21** **SE/235.2** **79.8 / -2.08** **LOCKHEED MARTIN CANADA** **GEN**
3001 SOLANDT ROAD
KANATA ON

Generator No:	ON0476102	**Status:**	
SIC Code:	336410	**Co Admin:**	
SIC Description:	AEROSPACE PRODUCT AND PARTS MANUFACTURING	**Choice of Contact:**	
Approval Years:	2013	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	253
Waste Class Desc:	EMULSIFIED OILS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS

52 **17 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.** **ECA**
3001 Solandt Rd
Ottawa ON K2K 2M8

Approval No:	3445-9FMN4B	**MOE District:**	Ottawa
Approval Date:	2014-04-02	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.91657
Record Type:	ECA	**Latitude:**	45.34411
Link Source:	IDS	**Geometry X:**	

SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0853-93TR59-14.pdf
PDF Site Location:
Geometry Y:

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52 **18 of 21** **SE/235.2** **79.8 / -2.08**

Lockheed Martin Canada Inc.
3001 Solandt Road
Kanata ON K2K 2M8

ECA

Approval No: 6668-4J6PK6
Approval Date: 2000-05-12
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3170-4J4J43-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:

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52 **19 of 21** **SE/235.2** **79.8 / -2.08**

Lockheed Martin Canada Inc.
3001 Solandt Rd
Ottawa ON K2K 2M8

ECA

Approval No: 0118-78PQ7X
Approval Date: 2007-11-07
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0986-77LRAX-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:

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52 **20 of 21** **SE/235.2** **79.8 / -2.08**

LOCKHEED MARTIN CANADA
3001 SOLANDT ROAD
KANATA ON K2K 2M8

GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: AEROSPACE PRODUCT AND PARTS MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Scott D Forsyth
Choice of Contact: CO_ADMIN
Phone No Admin: 613-599-3270 Ext.3887
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 232

Waste Class Desc: POLYMERIC RESINS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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52 | **21 of 21** | **SE/235.2** | **79.8 / -2.08** | **Morguard Investments**
3001 Solandt Rd
Kanata ON K2K 3M8 | **GEN**

Generator No: ON3300096
SIC Code:
SIC Description:
Approval Years: As of Dec 2017
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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53 | **1 of 1** | **W/243.3** | **86.9 / 4.95** | **O HINES DRIVE**
KANATA ON | **WWIS**

Well ID: 7218163
Construction Date:
Primary Water Use: Monitoring and Test Hole

Data Entry Status:
Data Src:
Date Received: 3/20/2014

Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z178057	**Owner:**	
Tag:	A156413	**Street Name:**	O HINES DRIVE
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/721\7218163.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/02/14
Year Completed:	2014
Depth (m):	9.45
Latitude:	45.346741750083
Longitude:	-75.9257651900175
Path:	721\7218163.pdf

Bore Hole Information

Bore Hole ID:	1004724220	**Elevation:**	82.578880
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427477.00
Code OB Desc:		**North83:**	5021887.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	14-Feb-2014 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005093643
Layer:	4
Color:	6
General Color:	BROWN
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	2.3499999046325684
Formation End Depth:	8.529999732971191
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093644
Layer:	5
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	8.529999732971191
Formation End Depth:	9.449999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093641
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.3100000023841858
Formation End Depth:	2.130000114440918
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093642
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	2.130000114440918
Formation End Depth:	2.3499999046325684
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093640
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	

Mat2 Desc:
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 0.3100000023841858
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005093653
Layer: 1
Plug From: 0
Plug To: 0.310000002384186
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005093654
Layer: 2
Plug From: 0.310000002384186
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005093655
Layer: 3
Plug From:
Plug To: 9.44999980926514
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1005093652
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1005093639
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005093648
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 6.40000009536743
Casing Diameter: 4.03000020980835
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID:	1005093649
Layer:	1
Slot:	10
Screen Top Depth:	6.40000009536743
Screen End Depth:	9.44999980926514
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.82000017166138

Water Details

Water ID:	1005093647
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1005093646
Diameter:	7.619999885559082
Depth From:	3.0999999046325684
Depth To:	9.449999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1005093645
Diameter:	11.430000305175781
Depth From:	0.0
Depth To:	3.0999999046325684
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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54 ***1 of 9*** ***SSE/244.3*** ***80.8 / -1.14*** ***495 March Road Kanata ON K2K 3G1*** ***CA***

Certificate #:	5602-4STJ67
Application Year:	01
Issue Date:	1/29/01
Approval Type:	Industrial air
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	E-Cruiter.com Inc.
Client Address:	495 March Road
Client City:	Kanata
Client Postal Code:	K2K 3G1
Project Description:	This application is for the installation of one (1) standby emergency diesel generator
Contaminants:	
Emission Control:	Enclosure

---

54 ***2 of 9*** ***SSE/244.3*** ***80.8 / -1.14*** ***Dinmar Consulting Inc. 495 March Rd Suite 400 Kanata ON K2K 3G1*** ***SCT***

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

Established:
Plant Size (ft²):
Employment: 65

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

54	3 of 9	SSE/244.3	80.8 / -1.14	**Halogen Software** **495 March Rd Suite 500** **Ottawa ON K2K 3G1**	SCT

Established: 2001
Plant Size (ft²):
Employment: 80

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

54	4 of 9	SSE/244.3	80.8 / -1.14	**Picarro Canada Inc.** **495 March Road, Suite 100** **Ottawa ON**	CA

Certificate #: 2879-5L425B
Application Year: 2003
Issue Date: 4/5/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

54	5 of 9	SSE/244.3	80.8 / -1.14	**OneChip Photonics Inc.** **495 March Rd Suite 200** **Kanata ON K2K 3G1**	SCT

Established: 01-AUG-05
Plant Size (ft²): 30000
Employment:

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
54	6 of 9	SSE/244.3	80.8 / -1.14	Halogen Software 495 March Rd Suite 500 Kanata ON K2K 3G1	SCT

Established: 01-SEP-01
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

54	7 of 9	SSE/244.3	80.8 / -1.14	495 March Rd Ottawa ON K2K3G1	EHS

Order No: 20140130001
Status: C
Report Type: Custom Report
Report Date: 05-FEB-14
Date Received: 30-JAN-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.920838
Y: 45.343452

54	8 of 9	SSE/244.3	80.8 / -1.14	Picarro Canada Inc. 495 March Road, Suite 100 Ottawa ON K2K 3G1	ECA

Approval No: 2879-5L425B
Approval Date: 2003-04-05
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Picarro Canada Inc.
Address: 495 March Road, Suite 100
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2565-5G5SFJ-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.9194
Latitude: 45.34321
Geometry X:
Geometry Y:

54	9 of 9	SSE/244.3	80.8 / -1.14	E-Cruiter.com Inc. 495 March Road Kanata ON K2K 3G1	ECA

Approval No: 5602-4STJ67
Approval Date: 2001-01-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: E-Cruiter.com Inc.
Address: 495 March Road
Full Address:
MOE District: Ottawa
City:
Longitude: -75.9194
Latitude: 45.34321
Geometry X:
Geometry Y:

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8153-4R9MS8-14.pdf
PDF Site Location:

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55 **1 of 18** **WNW/247.1** **80.9 / -1.05** **964299 ONTARIO INC O/A ROB'S SHELL** **FSTH**
720 MARCH RD
KANATA ON K2K 2R9

License Issue Date: 1/11/2002
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Split Serve

--Details--
Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 40000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 40000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 40000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 25000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

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55 **2 of 18** **WNW/247.1** **80.9 / -1.05** **21777 SHELL GAS STATION 720 MARCH ROAD,** **SPL**
KANATA, ON K2L 1A1<UNOFFICIAL>
Ottawa ON K2L 1A1

Ref No: 3784-5K634B
Site No:
Incident Dt: 2/26/2003
Year:
Incident Cause:
Incident Event:
Contaminant Code: 12
Contaminant Name: GASOLINE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Human Health/Safety
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/26/2003
Dt Document Closed:

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

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

Incident Reason: **Source Type:**
Site Name: 21777 SHELL GAS STATION 720 MARCH ROAD, KANATA, ON K2L 1A1<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Shell - spill of 25L of gasoline to ground
Contaminant Qty: 25 L

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55 **3 of 18** **WNW/247.1** **80.9 / -1.05** **964299 ONTARIO INC O/A ROB'S SHELL**
720 MARCH RD
KANATA ON K2K 2R9
FSTH

License Issue Date: 1/11/2002
Tank Status: Pending Renewal
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Split Serve

--Details--
Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 25000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

---

55 **4 of 18** **WNW/247.1** **80.9 / -1.05** **Shell Canada OP Inc. and Shell Canada Products Limited**
720 March Road
Ottawa ON
CA

Certificate #: 6201-5R2QCA
Application Year: 2003
Issue Date: 10/9/2003
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	5 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA ON K2K 2R9	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10281064	***Expired Date:***	12/11/1999
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:		***Facility Location:***	
Instance Type:	FS Facility	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:			
Original Source:	EXP		
Record Date:	Up to May 2013		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	6 of 18	WNW/247.1	80.9 / -1.05	2643320 ONTARIO INC. 720 MARCH RD KANATA K2K 2R9 ON CA ON	FST

Instance No:	11625653	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	8/27/2009 5:35:17 PM	***Fuel Type3:***	NULL
Install Year:	2000	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	35000	***Num Underground:***	
Tank Material:	Fiberglass (FRP)	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 2643320 ONTARIO INC.
Item: FS LIQUID FUEL TANK

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55 ***7 of 18*** ***WNW/247.1*** ***80.9 / -1.05*** ***2643320 ONTARIO INC.***
720 MARCH RD KANATA K2K 2R9 ON CA
ON ***FST***

Instance No:	11625672	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	8/27/2009 5:35:44 PM	***Fuel Type3:***	NULL
Install Year:	2000	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	35000	***Num Underground:***	
Tank Material:	Fiberglass (FRP)	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 2643320 ONTARIO INC.
Item: FS LIQUID FUEL TANK

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55 ***8 of 18*** ***WNW/247.1*** ***80.9 / -1.05*** ***2643320 ONTARIO INC.***
720 MARCH RD KANATA K2K 2R9 ON CA
ON ***FST***

Instance No:	11625723	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Diesel
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	8/27/2009 5:37:19 PM	***Fuel Type3:***	NULL
Install Year:	2000	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	

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

Capacity:	25000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	2643320 ONTARIO INC.
Item:	FS LIQUID FUEL TANK

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55 | ***9 of 18*** | ***WNW/247.1*** | ***80.9 / -1.05*** | ***2643320 ONTARIO INC.***
720 MARCH RD KANATA K2K 2R9 ON CA
ON | ***FST***

Instance No:	11625690	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Double Wall UST	**Fuel Type2:**	NULL
Install Date:	8/27/2009 5:36:49 PM	**Fuel Type3:**	NULL
Install Year:	2000	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	35000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	2643320 ONTARIO INC.
Item:	FS LIQUID FUEL TANK

---

55 | ***10 of 18*** | ***WNW/247.1*** | ***80.9 / -1.05*** | ***SUNCOR ENERGY PRODUCTS INC***
720 MARCH RD KANATA K2K 2R9 ON CA
ON | ***DTNK***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	11 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	DTNK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	12 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	DTNK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	13 of 18	WNW/247.1	80.9 / -1.05	Shell Station<UNOFFICIAL> 720 March Rd Ottawa ON	SPL

Ref No:	3316-9QLR3A	**Discharger Report:**	
Site No:	2711-5LDKRB	**Material Group:**	
Incident Dt:	2014/11/06	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Leak/Break	**Sector Type:**	Service Station
Incident Event:		**Agency Involved:**	
Contaminant Code:	12	**Nearest Watercourse:**	
Contaminant Name:	GASOLINE	**Site Address:**	720 March Rd
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	NA
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Ottawa
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	2014/11/06	**Site Map Datum:**	NA
Dt Document Closed:	2014/11/13	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Operator/Human Error	**Source Type:**	
Site Name:	720 March Road		
Site County/District:			
Site Geo Ref Meth:	NA		
Incident Summary:	Shell Station, 15 L deisel to pavement, and 1 c/b		
Contaminant Qty:	15 L		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	14 of 18	WNW/247.1	80.9 / -1.05	Shell Canada OP Inc. and Shell Canada Products Limited 720 March Road Ottawa ON M2N 6Y2	ECA

Approval No:	6201-5R2QCA	**MOE District:**	Ottawa
Approval Date:	2003-10-09	**City:**	
Status:	Approved	**Longitude:**	-75.92642
Record Type:	ECA	**Latitude:**	45.351067
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Shell Canada OP Inc. and Shell Canada Products Limited		
Address:	720 March Road		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7903-5LDKPW-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	15 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA	FST

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

Instance No:	11597552	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	12/10/1999	**Fuel Type3:**	NULL
Install Year:	1999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name:	SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

55	16 of 18	WNW/247.1	80.9 / -1.05	720 MARCH RD KANATA ON K2K 2R9	FST

Instance No:	64667332	**Manufacturer:**	
Status:	Active	**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS GASOLINE STATION - SELF SERVE	**Unit of Measure:**	
Item Description:		**Fuel Type:**	
Tank Type:		**Fuel Type2:**	
Install Date:		**Fuel Type3:**	
Install Year:		**Piping Steel:**	0
Years in Service:		**Piping Galvanized:**	0
Model:		**Tanks Single Wall St:**	0
Description:		**Piping Underground:**	3
Capacity:		**Num Underground:**	4
Tank Material:		**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:			
Parent Facility Type:			
Facility Location:			
Device Installed Location:			

55	17 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	FST

Instance No:	11597526	**Manufacturer:**	

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

Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	12/10/1999	**Fuel Type3:**	NULL
Install Year:	1999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	18 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	FST

Instance No:	11597541	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	12/10/1999	**Fuel Type3:**	NULL
Install Year:	1999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:

Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

Unplottable Summary

Total: 105 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 8/11 Con 4/5	Kanata ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Colonnade Development Incorporated		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	

CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Kanata Research Park Corporation	Ottawa ON
CA	Suncor Energy Products Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	D.I.R. Investments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Colonnade Development Incorporated	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON

CA	Minto Developments Inc.		Ottawa ON
CA	Minto Developments Inc.		Ottawa ON
CA	Minto Developments Inc.		Ottawa ON
CA		Terry Fox Drive	Kanata ON
CA	Briarridge Sewage Pumping Station	Lot 9, Concession 4	Ottawa ON
CA		Kanata Research Park	Kanata ON
CA		Kanata Research Park	Kanata ON
CA		Kanata Research Park	Kanata ON
CA		Kanata Research Park	Kanata ON
CA	Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road	Terry Fox Drive	Ottawa ON
CA	Kanata Research Park	Solandt Road	Ottawa ON
CA	CANADIAN TIRE REAL ESTATE LTD., GILPAUL	TERRY FOX DR.,GAS BAR SWM FAC.	KANATA CITY ON
CA	MOSAID TECHNOLOGIES INCORPORATED	PT.LOT 8/CON.3,HINES RD., SWM	KANATA CITY ON
CA	COLONNADE DEVELOPMENT INC.	SOLANDT RD., PT.8, BLK. 20,SWM	KANATA CITY ON
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON
CA	KANATA RESEARCH PARK CORP.	TERRY FOX DR.,CROSS KEY, SWM	KANATA CITY ON
CA	KANATA RESEARCH PARK CORP.	PT.LOTS 8&9/C-4, HELMSDALE,SWM	KANATA ON
CA	KANATA RESEARCH PARK CORP.	PT.LOT 9/CON.4,NEWBRIDGE (SWM)	KANATA CITY ON
CA	COLONNADE DEVELOPMENT INC.	SOLANDT ROAD EXTENSION	KANATA CITY ON
CA	KANATA RESEARCH PARK CORPORATION	TERRY FOX DR. KANATA N. BUS. P	KANATA CITY ON
CA	954198 ONTARIO INC.	ST. #1/MCKINLEY DR.,PLAN 4M755	KANATA CITY ON
CA	GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D	M.T.O. ACCES RD/TERRY FOX DR.	KANATA CITY ON

CA	WILLIAM S. BURNSIDE CANADA LTD.	HINES RD.	KANATA CITY ON	
CA	TAYLOR DEVELOPMENTS	SHOPPING CEN., TERRY FOX DRIVE	KANATA CITY ON	
CA	KANATA CITY	LEGGET DRIVE	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY	FUTURE TERRY FOX DR.	KANATA CITY ON	
CA	954198 ONTARIO INC.	MCKINLEY DR.N./PLAN 4M-755	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA LTD.-PT.LOT 9	HINES RD./ON-SITE S-WAT. MGT.	KANATA CITY ON	
CA	KANATA CITY - TERRY FOX DR.	TERRY FOX DR/M.T.O.ACCESS RD.	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORP./CROSS KEYS	STORMWATER MANAGEMENT FACILITY	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA LTD.	STORMW. DET. FAC. HINES RD.	KANATA CITY ON	
CA	KANATA CITY - EAST MARCH TRUNK SEWERS	PROP.EASMT.-LEGGET DRIVE	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA	HINES RD.	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY FORCEMAIN	FUTURE TERRY FOX DR. P.S.	KANATA CITY ON	
CA	KANATA CITY	TERRY FOX DRIVE	KANATA CITY ON	
CA	KANATA CITY KANATA N. BUSINESS PARK	TERRY FOX DRIVE	KANATA CITY ON	
CONV	SHELL CANADA PRODUCTS LIMITED		DON MILLS ON	
ECA	Minto Developments Inc.		Ottawa ON	K1R 7Y2
ECA	Shell Canada Limited	Nepean	Ottawa ON	M2N 6Y2
ECA	Minto Developments Inc.		Ottawa ON	K1R 7Y2
ECA	City of Ottawa	Terry Fox Dr	Ottawa ON	K1P 1J1
LIMO	Nepean Concession 3 Dump	Ottawa	ON	
LIMO	Cumberland Landfill Fernand Leduc City of Ottawa	Lot 9, Concession 3 Ottawa	ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean	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	Lots 6 7 and 8, Concession 4, City of Ottawa CITY OF OTTAWA	ON
SPL	PUC	TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD.	KANATA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	SERVICE STATION	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	Nortel Networks<UNOFFICIAL>	Nortel Networks<UNOFFICIAL>	Ottawa ON
SPL	Van's Industrial & Specialty Coatings<UNOFFICIAL>	Terry Fox Drive, Nepean	Ottawa ON
SPL	City of Ottawa	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>	Ottawa ON
SPL	Shell Canada Products Limited	Shell Canada	Ottawa ON
SPL	OTTAWA-CARLETON, REG. MUN.	LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE	KANATA CITY ON
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON
WWIS		lot 8	ON

Unplottable Report

Site:
Lot 8/11 Con 4/5 Kanata ON

Database: ***AAGR***

Type:
Region/County: Ottawa-Carleton
Township: Kanata
Concession: 4/5
Lot: 8/11
Size (ha):
Landuse:
Comments:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1530-6QQL2J
Application Year: 2006
Issue Date: 7/14/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 8733-8J9RH6
Application Year: 2011
Issue Date: 7/28/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 9152-65XHVP
Application Year: 2004
Issue Date: 10/21/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:

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

Site: ***Colonnade Development Incorporated***
Ottawa ON

Database: ***CA***

Certificate #: 8748-7DGQCH
Application Year: 2008
Issue Date: 4/25/2008
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 8418-76APWL
Application Year: 2007
Issue Date: 8/22/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 8133-65GMW9
Application Year: 2004
Issue Date: 10/6/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7996-5Q7RGN
Application Year: 2003
Issue Date: 8/12/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7788-6XDSAP
Application Year: 2007
Issue Date: 1/19/2007
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7677-7DPNN3
Application Year: 2008
Issue Date: 5/1/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7355-6M4TMP
Application Year: 2006
Issue Date: 2/20/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 7163-5SYQ3M
Application Year: 2003
Issue Date: 11/14/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 7043-6P2REB
Application Year: 2006
Issue Date: 4/20/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 6733-5NSKZ9
Application Year: 2003
Issue Date: 6/23/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 6380-6JGQ7B
Application Year: 2005
Issue Date: 12/29/2005
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:

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

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 6002-7DAKG9
Application Year: 2008
Issue Date: 4/2/2008
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 5963-766KNS
Application Year: 2007
Issue Date: 8/21/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 5840-6NRNJD
Application Year: 2006
Issue Date: 5/4/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 5109-66JPRR

Application Year: 2004
Issue Date: 11/9/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 4309-6VTJMR
Application Year: 2006
Issue Date: 12/1/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 4208-6J7J5T
Application Year: 2005
Issue Date: 11/17/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3934-5QBL78
Application Year: 2003
Issue Date: 9/18/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3403-5MAJ6D
Application Year: 2003
Issue Date: 5/9/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3360-7H3RCS
Application Year: 2008
Issue Date: 8/8/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3324-5PXLMV
Application Year: 2003
Issue Date: 7/31/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2814-68ZN2P
Application Year: 2005
Issue Date: 2/2/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2803-6XKQB2
Application Year: 2007
Issue Date: 1/25/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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

Database: ***CA***

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

Site: ***Suncor Energy Products Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2751-78XLN5
Application Year: 2007
Issue Date: 11/19/2007
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2539-66USUQ
Application Year: 2004

Issue Date: 11/25/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2530-6JULSK
Application Year: 2005
Issue Date: 12/16/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***D.I.R. Investments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2390-6NBQN4
Application Year: 2006
Issue Date: 4/3/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2206-5J5J5M
Application Year: 2003
Issue Date: 1/27/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1930-5HZMDY
Application Year: 2003
Issue Date: 1/21/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1814-73VJMC
Application Year: 2007
Issue Date: 6/7/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1688-5ZCP3J
Application Year: 2004
Issue Date: 5/28/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1462-76TNSQ
Application Year: 2007
Issue Date: 9/11/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

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

Site: ***Colonnade Development Incorporated***
Ottawa ON

Database: ***CA***

Certificate #: 1314-7Z8TPU
Application Year: 2010
Issue Date: 1/4/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1305-5PNSMF
Application Year: 2003
Issue Date: 7/22/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1297-6SPJ46
Application Year: 2006
Issue Date: 8/17/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1168-67AKKL
Application Year: 2004
Issue Date: 12/7/2004

Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1002-6GQJNY
Application Year: 2005
Issue Date: 10/3/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 0681-67QTZP
Application Year: 2005
Issue Date: 1/11/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 0523-7EVPTJ
Application Year: 2008
Issue Date: 8/21/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***

Terry Fox Drive Kanata ON

Certificate #:	0854-4JBJN5
Application Year:	00
Issue Date:	4/13/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Ottawa-Carleton
Client Address:	111 Lisgar Street
Client City:	Ottawa
Client Postal Code:	K2P 2L7
Project Description:	Extension of the watermain on Terry Fox Drive from Winchester Drive south to Michael Cowpland Drive, with a 400 mm diameter watermain.
Contaminants:	
Emission Control:	

Site: ***Briarridge Sewage Pumping Station*** ***Database:*** ***CA***

Lot 9, Concession 4 Ottawa ON

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

Site: ***Database:*** ***CA***

Kanata Research Park Kanata ON

Certificate #:	5816-5ALKNH
Application Year:	02
Issue Date:	5/30/02
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	Amended CofA
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive, Suite 206
Client City:	Kanata
Client Postal Code:	K2K 2X3
Project Description:	Increase Storage Volumes for Stormwater Management Pond No. 3.
Contaminants:	
Emission Control:	

Site: ***Database:*** ***CA***

Kanata Research Park Kanata ON

Certificate #:	8125-4MTJ36
Application Year:	02
Issue Date:	5/30/02
Approval Type:	Municipal & Private sewage
Status:	Revoked and/or Replaced
Application Type:	New Certificate of Approval
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive
Client City:	Kanata

Client Postal Code: K2K 2X3
Project Description: Construction of 3 (three) permanent stormwater management facilities to provide quality and quantity control.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 8125-4MTJ36
Application Year: 01
Issue Date: 2/6/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Amendment requested by Technical Support Staff.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 8125- 4MTJ36
Application Year: 01
Issue Date: 3/29/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive, Suite 206
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Design change of stormwater management pond 2 to allow encroachment of proposed Stealth Development and to provide for a second forebay
Contaminants:
Emission Control:

Site: ***Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road*** ***Database:*** ***CA***
Terry Fox Drive Ottawa ON

Certificate #: 1044-5E9JWT
Application Year: 02
Issue Date: 9/27/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: City of Ottawa
Client Postal Code: K1P 1J1
Project Description: SWM Facility, quality and quantitay control with inlet and outlet sewers
Contaminants:
Emission Control:

Site: ***Kanata Research Park*** ***Database:*** ***CA***
Solandt Road Ottawa ON

Certificate #: 3498-4YZLAG
Application Year: 01

Issue Date: 7/27/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: Ottawa
Client Postal Code: K1P 1J1
Project Description: This application is for the construction of storm sewers on Soland Road from March Road to Legget Drive, in the City of Ottawa.
Contaminants:
Emission Control:

Site: ***CANADIAN TIRE REAL ESTATE LTD., GILPAUL TERRY FOX DR.,GAS BAR SWM FAC. KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0329-99-
Application Year: 99
Issue Date: 7/26/1999
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MOSAID TECHNOLOGIES INCORPORATED PT.LOT 8/CON.3,HINES RD., SWM KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0773-97-
Application Year: 97
Issue Date: 8/13/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***COLONNADE DEVELOPMENT INC. SOLANDT RD., PT.8, BLK. 20,SWM KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0514-97-
Application Year: 97
Issue Date: 7/2/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database: ***CA***

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
TERRY FOX DR.,CROSS KEY, SWM KANATA CITY ON

Database: ***CA***

Certificate #: 3-0087-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOTS 8&9/C-4, HELMSDALE,SWM KANATA ON

Database: ***CA***

Certificate #: 3-1056-98-
Application Year: 98
Issue Date: 9/18/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOT 9/CON.4,NEWBRIDGE (SWM) KANATA CITY ON

Database: ***CA***

Certificate #: 3-0095-94-
Application Year: 94
Issue Date: 3/15/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***COLONNADE DEVELOPMENT INC.***
SOLANDT ROAD EXTENSION KANATA CITY ON

Database: ***CA***

Certificate #: 3-1191-95-
Application Year: 95
Issue Date: 8/29/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORPORATION***
TERRY FOX DR. KANATA N. BUS. P KANATA CITY ON

Database: ***CA***

Certificate #: 7-0653-87-
Application Year: 87
Issue Date: 6/9/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***954198 ONTARIO INC.***
ST. #1/MCKINLEY DR.,PLAN 4M755 KANATA CITY ON

Database: ***CA***

Certificate #: 7-0520-93-
Application Year: 93
Issue Date: 6/24/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D***
M.T.O. ACCES RD/TERRY FOX DR. KANATA CITY ON

Database: ***CA***

Certificate #: 7-0939-91-
Application Year: 91

Issue Date: 8/2/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD.***
HINES RD. KANATA CITY ON

Database: ***CA***

Certificate #: 7-1597-89-
Application Year: 89
Issue Date: 10/3/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***TAYLOR DEVELOPMENTS***
SHOPPING CEN., TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 7-1321-88-
Application Year: 88
Issue Date: 8/19/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY***
LEGGET DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 7-1141-88-
Application Year: 88
Issue Date: 7/28/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY VALLEY-VU REALTY***
FUTURE TERRY FOX DR. KANATA CITY ON

Database: ***CA***

Certificate #:	7-1420-86-
Application Year:	86
Issue Date:	12/17/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***954198 ONTARIO INC.***
MCKINLEY DR.N./PLAN 4M-755 KANATA CITY ON

Database: ***CA***

Certificate #:	3-0665-93-
Application Year:	93
Issue Date:	6/24/1993
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***WILLIAM S. BURNSIDE CANADA LTD.-PT.LOT 9***
HINES RD./ON-SITE S-WAT. MGT. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1024-92-
Application Year:	92
Issue Date:	9/18/1992
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY - TERRY FOX DR.***
TERRY FOX DR/M.T.O.ACCESS RD. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1175-91-
Application Year:	91
Issue Date:	8/2/1991
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	

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

Site: ***KANATA RESEARCH PARK CORP./CROSS KEYS STORMWATER MANAGEMENT FACILITY KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0160-90-
Application Year: 90
Issue Date: 1/22/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD. STORMW. DET. FAC. HINES RD. KANATA CITY ON***

Database: ***CA***

Certificate #: 3-1831-89-
Application Year: 89
Issue Date: 1/21/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY - EAST MARCH TRUNK SEWERS PROP.EASMT.-LEGGET DRIVE KANATA CITY ON***

Database: ***CA***

Certificate #: 3-2442-89-
Application Year: 89
Issue Date: 12/18/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA HINES RD. KANATA CITY ON***

Database: ***CA***

Certificate #: 3-1921-89-
Application Year: 89
Issue Date: 10/3/1989

Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY VALLEY-VU REALTY FORCEMAIN***
FUTURE TERRY FOX DR. P.S. KANATA CITY ON

Database: ***CA***

Certificate #: 3-1793-86-
Application Year: 86
Issue Date: 12/17/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY***
TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 3-1806-87-
Application Year: 87
Issue Date: 10/5/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY KANATA N. BUSINESS PARK***
TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 3-0786-87-
Application Year: 87
Issue Date: 6/9/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SHELL CANADA PRODUCTS LIMITED***
DON MILLS ON

Database: ***CONV***

File No:
Crown Brief No:
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: DISCHARGING A CONTAMINANT - ADVERSE EFFECT
Background:
URL:

Location:
Region: SOUTH EAST REGION
Ministry District:

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 13(1)
Act/Regulation/Section: EPA- -13(1)
Date of Offence:
Date of Conviction:
Date Charged: 92/05/12
Charge Disposition:
Fine: 90000
Synopsis:

Site: ***Minto Developments Inc.***
Ottawa ON K1R 7Y2

Database: ***ECA***

Approval No: 7163-5SYQ3M
Approval Date: 2003-11-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Developments Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2997-5SKKCW-14.pdf
PDF Site Location:

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

Site: ***Shell Canada Limited***
Nepean Ottawa ON M2N 6Y2

Database: ***ECA***

Approval No: 1454-96LJDX
Approval Date: 2013-04-19
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Shell Canada Limited
Address: Nepean
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6976-92AQLQ-14.pdf

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

PDF Site Location:

Site: ***Minto Developments Inc.***
Ottawa ON K1R 7Y2

Database: ***ECA***

Approval No:	4490-5SYQAN	***MOE District:***	
Approval Date:	2003-11-14	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Business Name:	Minto Developments Inc.		
Address:			
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***City of Ottawa***
Terry Fox Dr Ottawa ON K1P 1J1

Database: ***ECA***

Approval No:	1044-5E9JWT	***MOE District:***	
Approval Date:	2002-09-27	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	City of Ottawa		
Address:	Terry Fox Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6019-59QSAT-14.pdf		
PDF Site Location:			

Site: ***Nepean Concession 3 Dump***
Ottawa ON

Database: ***LIMO***

ECA/Instrument No:	Y0163	***Natural Attenuation:***	
Oper Status 2016:	Historic	***Liners:***	
C of A Issue Date:		***Cover Material:***	
C of A Issued to:		***Leachate Off-Site:***	
Lndfl Gas Mgmt (P):		***Leachate On Site:***	
Lndfl Gas Mgmt (F):		***Req Coll Lndfll Gas:***	
Lndfl Gas Mgmt (E):		***Lndfll Gas Coll:***	
Lndfl Gas Mgmt Sys:		***Total Waste Rec:***	
Landfill Gas Mntr:		***TWR Methodology:***	
Leachate Coll Sys:		***TWR Unit:***	
ERC Est Vol (m3):		***Tot Aprv Cap Unit:***	
ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***MOE Region:***	
Source File Type:	Historic and Closed Landfills	***MOE District:***	
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Air Emis Monitor:			

Approved Waste Type:
Client Site Name: Nepean Concession 3 Dump
ERC Methodology:
Site Name:
Site Location Details: Ottawa
Service Area:
Page URL:

Site: ***Cumberland Landfill Fernand Leduc City of Ottawa***
Lot 9, Concession 3 Ottawa ON

Database: ***LIMO***

ECA/Instrument No: A461602
Oper Status 2016: Closed
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
ERC Volume Unit:
ERC Dt Last Det:
Landfill Type:
Source File Type:
Fill Rate:
Fill Rate Unit:
Tot Fill Area (ha):
Tot Site Area (ha):
Footprint:
Tot Apprv Cap (m3):
Contam Atten Zone:
Grndwtr Mntr:
Surf Wtr Mntr:
Air Emis Monitor:
Approved Waste Type:
Client Site Name:
ERC Methodology:
Site Name: Cumberland Landfill
Fernand Leduc
City of Ottawa
Site Location Details:
Service Area:
Page URL:

Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfll Gas:
Lndfll Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:
Financial Assurance:
Last Report Year:
MOE Region:
MOE District:
Site County:
Lot:
Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

Site: ***Mattamy (Half Moon Bay) Limited***
Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean ON

Database: ***PTTW***

EBR Registry No: 010-4784
Ministry Ref No: 6623-7JUKMA
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 29, 2009
Proposal Date: October 08, 2008
Year: 2008
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Mattamy (Half Moon Bay) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9
Comment Period:
URL:

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

Site Location Details:

Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean

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

Database: ***PTTW***

EBR Registry No: IA05E1015
Ministry Ref No: ER-3083-67XPBX
Notice Type: Instrument Decision
Notice Stage:
Notice Date: November 02, 2005
Proposal Date: June 29, 2005
Year: 2005
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Kanata Research Park Corporation
Site Address:
Location Other:
Proponent Name:
Proponent Address: 555 Legget Drive, Kanata Ontario, K2K 2X3
Comment Period:
URL:

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

Site Location Details:

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

Site: ***Burnside Sand & Gravel Limited***
Lots 6 7 and 8, Concession 4, City of Ottawa CITY OF OTTAWA ON

Database: ***PTTW***

EBR Registry No: 011-7053
Ministry Ref No: 7358-8XFPY5
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 04, 2012
Proposal Date: August 27, 2012
Year: 2012
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Burnside Sand & Gravel Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: Burnside Sand & Gravel Limited, 5597 Power Road, Ottawa Ontario, Canada K1G 3N4
Comment Period:
URL:

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

Site Location Details:

Lots 6 7 and 8, Concession 4, City of Ottawa CITY OF OTTAWA

Site: ***PUC***
TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD. KANATA CITY ON

Database: ***SPL***

Ref No: 4874
Site No:
Incident Dt: 6/7/1988

Discharger Report:
Material Group:
Health/Env Conseq:

Year:		***Client Type:***	
Incident Cause:	COOLING SYSTEM LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20103
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/7/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	FIRE/EXPLOSION	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	KANATA HYDRO - 150 L MINERAL OIL (NO PCBS) TO GROUND.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	8471	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	8/22/1988	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	ABOVE-GROUND TANK LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/22/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	UPLANDS AIRPORT - 50 L OF JET FUEL TO PAVEMENT FROM TANK TRUCK.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	16382	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	3/27/1989	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	

Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	3/27/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	UPLANDS AIRPORT - 20 L OF JET FUEL TO GROUND.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	21872	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/11/1989	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/11/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SHELL REFUELING VEHICLE- 70 L AVIATION FUEL TO GROUND.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	23253	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	//	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/7/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	

Incident Reason: EQUIPMENT FAILURE
Source Type:
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHELL- 4.5 LTR SPILL OF JET FUEL AT UPLANDS AIRPORT
Contaminant Qty:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No: 26231
Site No:
Incident Dt: 10/5/1989
Year:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/5/1989
Dt Document Closed:
Incident Reason: EQUIPMENT FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHELL CANADA - 120L JET FUEL TO TERMINAL RAMP
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting: DEPT OF TRANSPORT
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No: 30521
Site No:
Incident Dt: 2/2/1990
Year:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium: LAND / AIR
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/2/1990
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHELL TANK TRUCK-50 L AVIATION FUEL TO ASPHALT
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ***SHELL CANADA PRODUCTS LTD.***
SERVICE STATION OTTAWA CITY ON

Database: ***SPL***

Ref No:	60160	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	11/24/1991	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	SHELL, FIRE DEPT. TRIANGLE PUMP
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	11/25/1991	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	CORROSION	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: SHELL SERVICE STATION - 25 L. OF GASOLINE TO GROUND FROM LEAKY CAR
Contaminant Qty:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	81836	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/14/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/14/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: SHELL-25L OF JET A-1 FUELTO GROUND DURING FUELLINGCONTAINED, CLEANED UP.
Contaminant Qty:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	81843	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/14/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	

Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/14/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	UNKNOWN	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SHELL CANADA - 20 L OF AVIATION FUEL TO RAMP DUE TO TRUCK LEAK		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	84404	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	4/21/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/22/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SHELL CANADA - 40 L OF AVIATION FUEL AT GATE A DUE TO TRUCK LEAK		
Contaminant Qty:			

Site: ***Nortel Networks<UNOFFICIAL>***
Nortel Networks<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	4030-6GTJE2	***Discharger Report:***	0
Site No:		***Material Group:***	Gases/Particulate
Incident Dt:	9/28/2005	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	HALON (CFC)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa

Nature of Impact:		***Site Lot:***	
Receiving Medium:	Air	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	10/3/2005	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spills at Federal Facilities & Spills of National Interest
Incident Reason:		***Source Type:***	
Site Name:	Nortel Networks<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Spill to Air		
Contaminant Qty:			

Site: ***Van's Industrial & Specialty Coatings<UNOFFICIAL>***
Terry Fox Drive, Nepean Ottawa ON

Database: ***SPL***

Ref No:	2438-6GNMTJ	***Discharger Report:***	0
Site No:		***Material Group:***	Oil
Incident Dt:	9/28/2005	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Transport Accident	***Sector Type:***	Other Motor Vehicle
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:	Land & Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/28/2005	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spills to Watercourses
Incident Reason:	Adverse Road Condition - Road faults	***Source Type:***	
Site Name:	East side of Terry Fox Drive, between March Road and Legget Drive<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Van's Cleaning, 40 L diesel to road, ditch, sewer		
Contaminant Qty:			

Site: ***City of Ottawa***
LEGGET AND MARCH RD, KANATA<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	0123-64NQX5	***Discharger Report:***	
Site No:		***Material Group:***	Waste
Incident Dt:	9/9/2004	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge Or Bypass To A Watercourse	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	44	***Nearest Watercourse:***	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	***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:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/9/2004	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spill to Inland Watercourses

Incident Reason:	Equipment Failure	***Source Type:***	
Site Name:	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Legget & March Rd SPS,raw,unchlorin,equip failure		
Contaminant Qty:			

Site: ***Shell Canada Products Limited***
Shell Canada Ottawa ON

Database: ***SPL***

Ref No:	6267-5M2K7H	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	4/28/2003	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	12	***Nearest Watercourse:***	
Contaminant Name:	GASOLINE	***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:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Other Impact(s)	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/28/2003	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spills
Incident Reason:		***Source Type:***	
Site Name:	LOADING RACK 1<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Shell - 1L gasoline		
Contaminant Qty:	1 L		

Site: ***OTTAWA-CARLETON, REG. MUN.***
LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE KANATA CITY ON

Database: ***SPL***

Ref No:	134351	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	//	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	CONTAINER OVERFLOW	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20103
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	11/18/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	REG. MUN. OTTAWA-CARLETONL.U.S.T. FUEL LEAKING OUTTOP OF THE TANK.		
Contaminant Qty:			

Site: ***ONTARIO HYDRO***
SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database: ***SPL***

Ref No:	128700	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/26/1996	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	COOLING SYSTEM LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	CONFIRMED	***Site Municipality:***	20103
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	EPS
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/3/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	OTHER	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.
Contaminant Qty:

Site:
lot 8 ON

Database: ***WWIS***

Well ID:	1500396	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	2/26/1948
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1107
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	OTTAWA CITY (GLOUCESTER)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	008
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	JG
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022441	***Elevation:***	
DP2BR:	28.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	29-Oct-1947 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 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

Overburden and Bedrock Materials Interval

Formation ID: 930989162
Layer: 2
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2: 19
Mat2 Desc: SLATE
Mat3:
Mat3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500396
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10571011
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037815
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 28
Casing Diameter: 4
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
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500396
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 6.0
Recommended Pump Depth:
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 8.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933452913
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 51.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Dec 31, 2021

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Nov 30, 2021

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Dec 31, 2021

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Nov 30, 2021

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Nov 30, 2021

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Dec 31, 2021

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Nov 30, 2021

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Dec 31, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Sep 2020

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Nov 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2021

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix G

Aerial Photographs

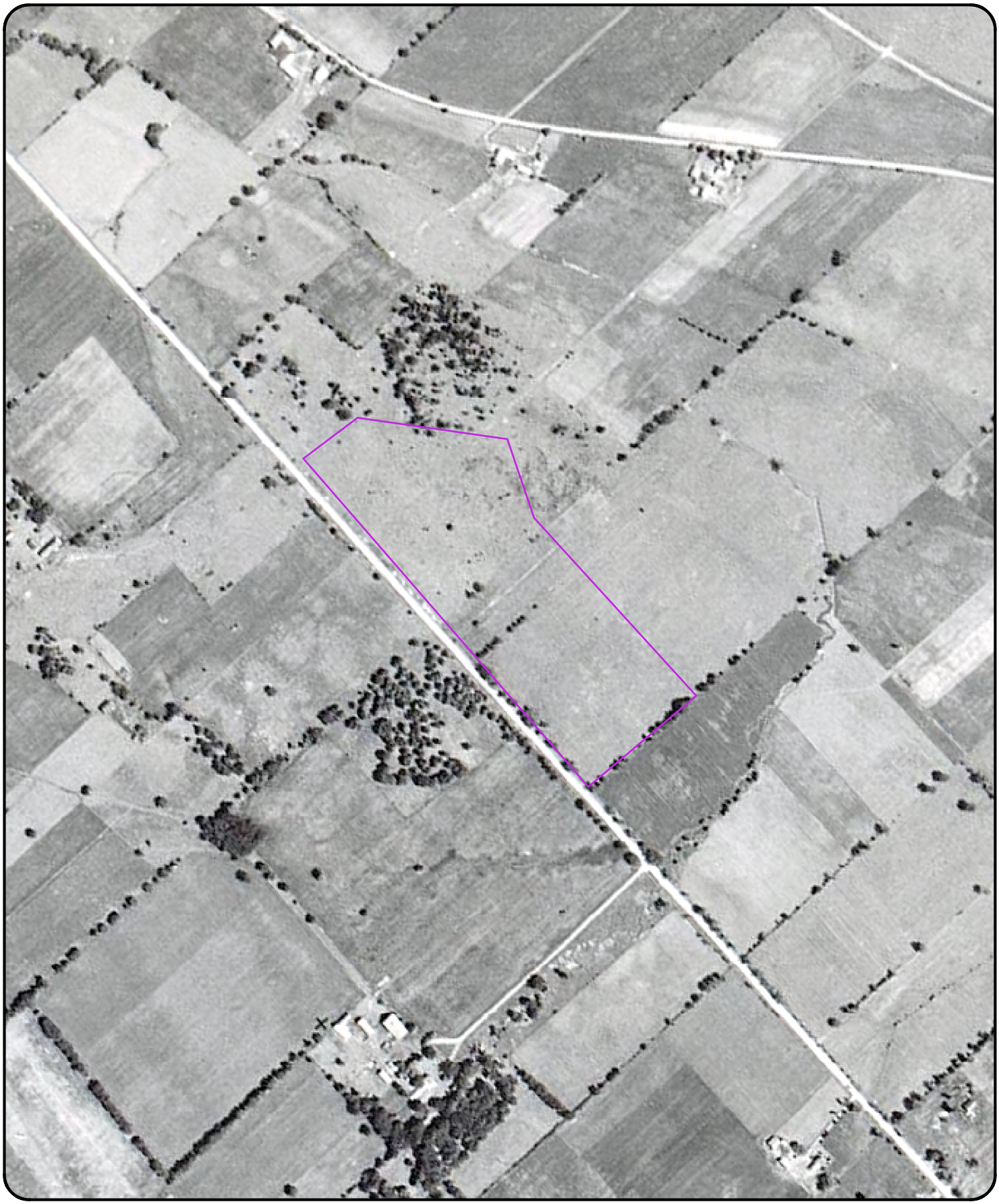
HISTORICAL AERIALS

Project Property:	600 March Road, Ottawa, Ontario 600 March Road Kanata ON K2K 2T6
Project No:	12566614
Requested By:	GHD Limited
Order No:	22010600440
Date Completed:	January 13, 2022

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

Decade	Year	Image Scale	Source
1920	Not Available		
1930	1934	15000	NAPL
1940	1945	15000	NAPL
1950	1952	15000	NAPL
1960	1960	25000	NAPL
1970	1976	10000	City of Ottawa
1980	1985	15000	NAPL

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Kilometers

Order Number: 22010600440

Year: 1934
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS



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Kilometers

Order Number: 22010600440

Year: 1945
Source: NAPL
Map Scale: 1: 10000
Comments:



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Kilometers

Order Number: 22010600440

Year: 1952
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS



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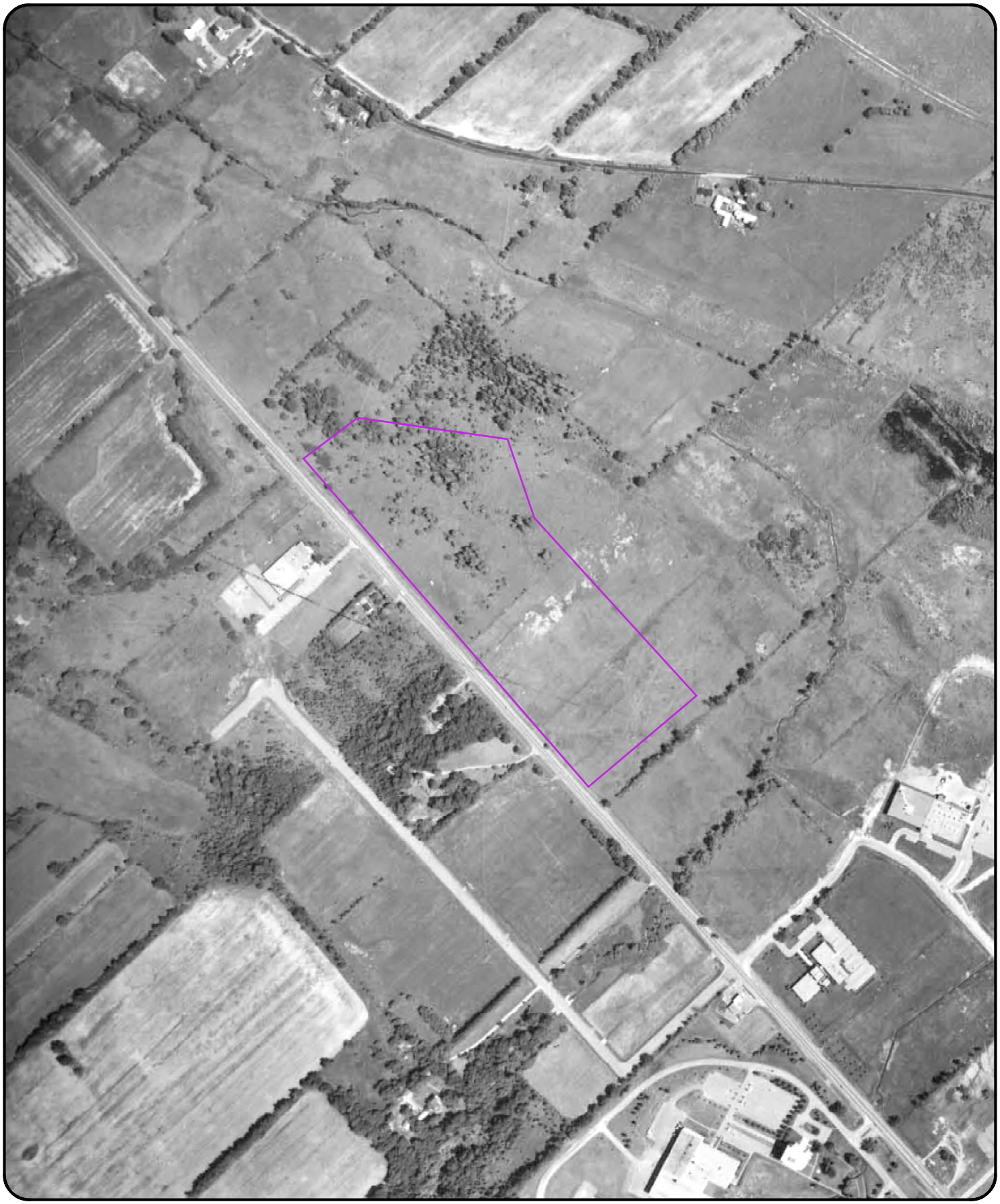
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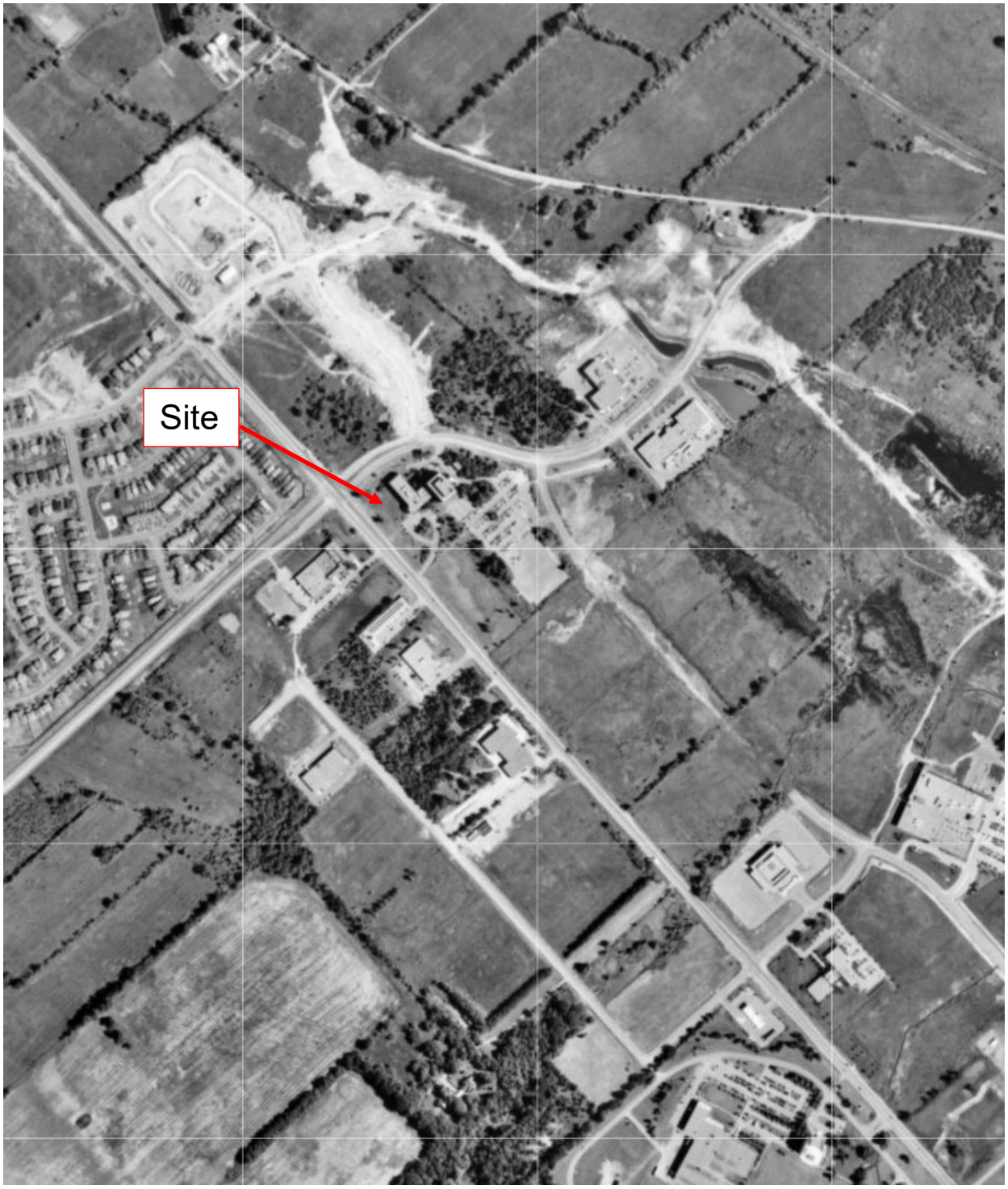


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Kilometers

Order Number: 22010600440

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Source: NAPL
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Comments:

ERIS



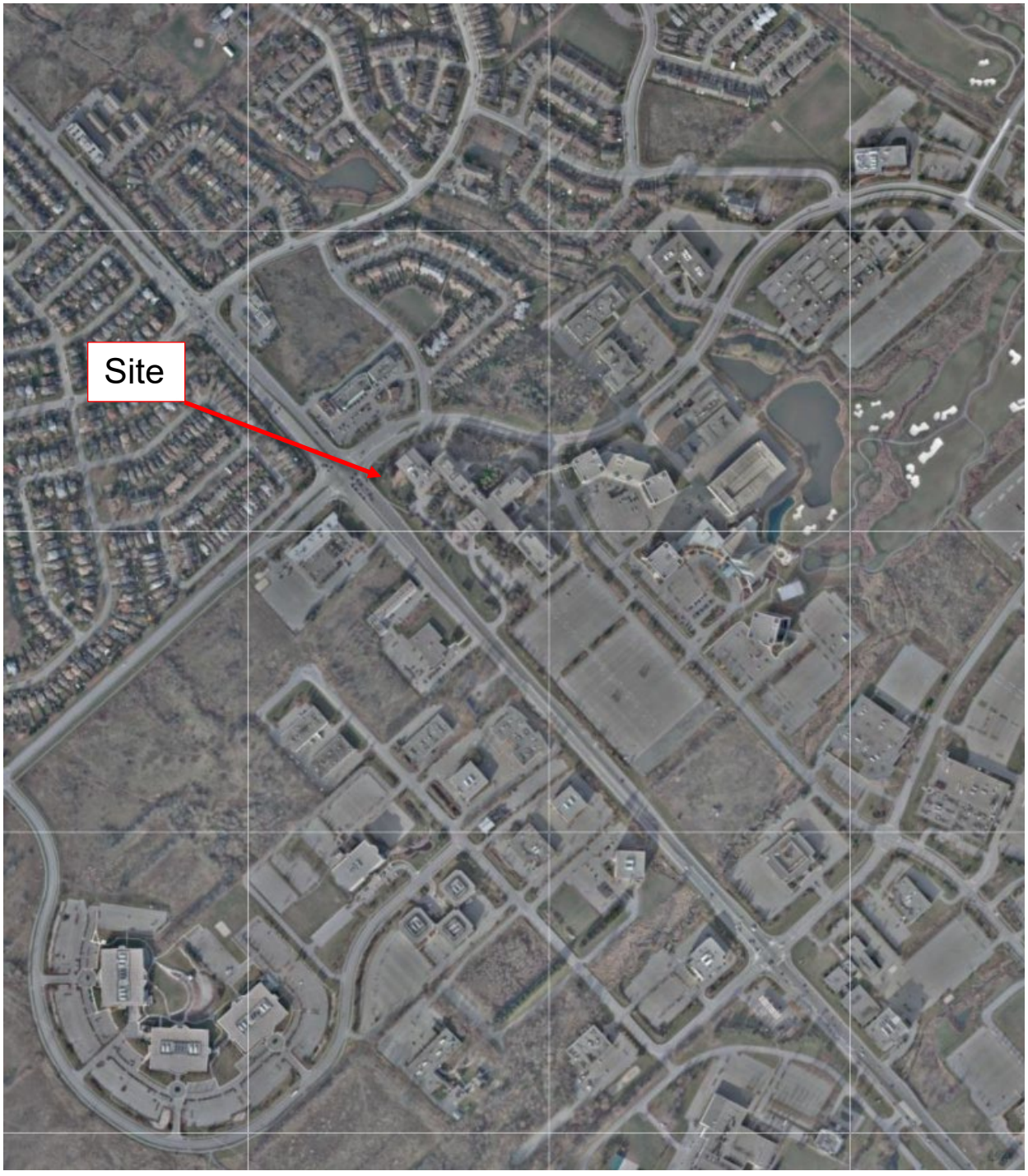
Year 1991

Aerial Photograph

Phase One ESA | 600 March Road



Year 1999



Year 2009

Aerial Photograph

Phase One ESA | 600 March Road



Year 2019

Aerial Photograph

Phase One ESA | 600 March Road

Appendix H

Site Photographs

Site Photographs



Photo 1 *View of Site Buildings (Corporate Tower and Tower 1), facing north.*



Photo 2 *View of Site Buildings (Left to Right: Tower 1, Main Lobby, Tower 2, Link 2, Tower 3, facing northeast.*



Photo 3 *View of Site Building (Link 2 and Tower 3), facing east.*



Photo 4 *View of Site Building (Tower 1), facing west.*



Photo 5 *View of Site Building (Tower 2) with ramp to below ground parking, facing east.*



Photo 6 *View of Site Building on northeast portion of Property, with Hydro Vault (left portion of building) and Diesel Generator and Tank (AST; right portion of building) on the interior, facing north.*



Photo 7 *View of Diesel Generator building (left; decommissioned flat tank below generator) and diesel tank on exterior (right), facing east.*



Photo 8 *View of Site Building (Link 2 on right, Tower 3 on left) with loading dock ramp, facing south.*



Photo 9 *View of Site parking lot, facing south. Legget Drive on left, Sanmina Corporation beyond parking lot (adjacent manufacturing), and Terry Fox on right.*



Photo 10 *View of surrounding properties (beyond Legget Drive) to the east, facing east.*



Photo 11 *View of Legget Drive beyond which are surrounding office/hotel building properties to the east and southeast, facing southeast.*



Photo 12 *View of March Road beyond which are surrounding office building properties to the southwest and west, facing southwest.*



Photo 13 *View of March Road beyond which is commercial strip mall, office building property, and residential development beyond Terry Fox Drive, facing west.*



Photo 14 *View of Terry Fox Drive beyond which is commercial strip mall property, facing north. McKinley Drive observed to the right, beyond which is residential development*



Photo 15 ***View of Terry Fox Drive beyond which is wooded area and additional office building properties, facing east.***



Photo 16 ***View of Main Lobby with stairs to lower level.***



Photo 17 View of typical office cubicle area.



Photo 18 View of typical server lab; dry transformers observed.



Photo 19 View of diesel generator and day tank located in penthouse of Tower 3.



Photo 20 View of bulk diesel tank on ground floor of Tower 3 (feeds day tank located in Tower 3 penthouse).



Photo 21 View of grease trap in kitchen of the Corporate Building.



Photo 22 View of sump pump pits and glycol system for Tower 2 basement loading ramp with trench drain.



Photo 23 View of Tower 2 basement loading area.



Photo 24 Typical penthouse glycol loop system and reservoir tanks.



Photo 25 *Typical exterior heat exchanger system (glycol or refrigerant).*

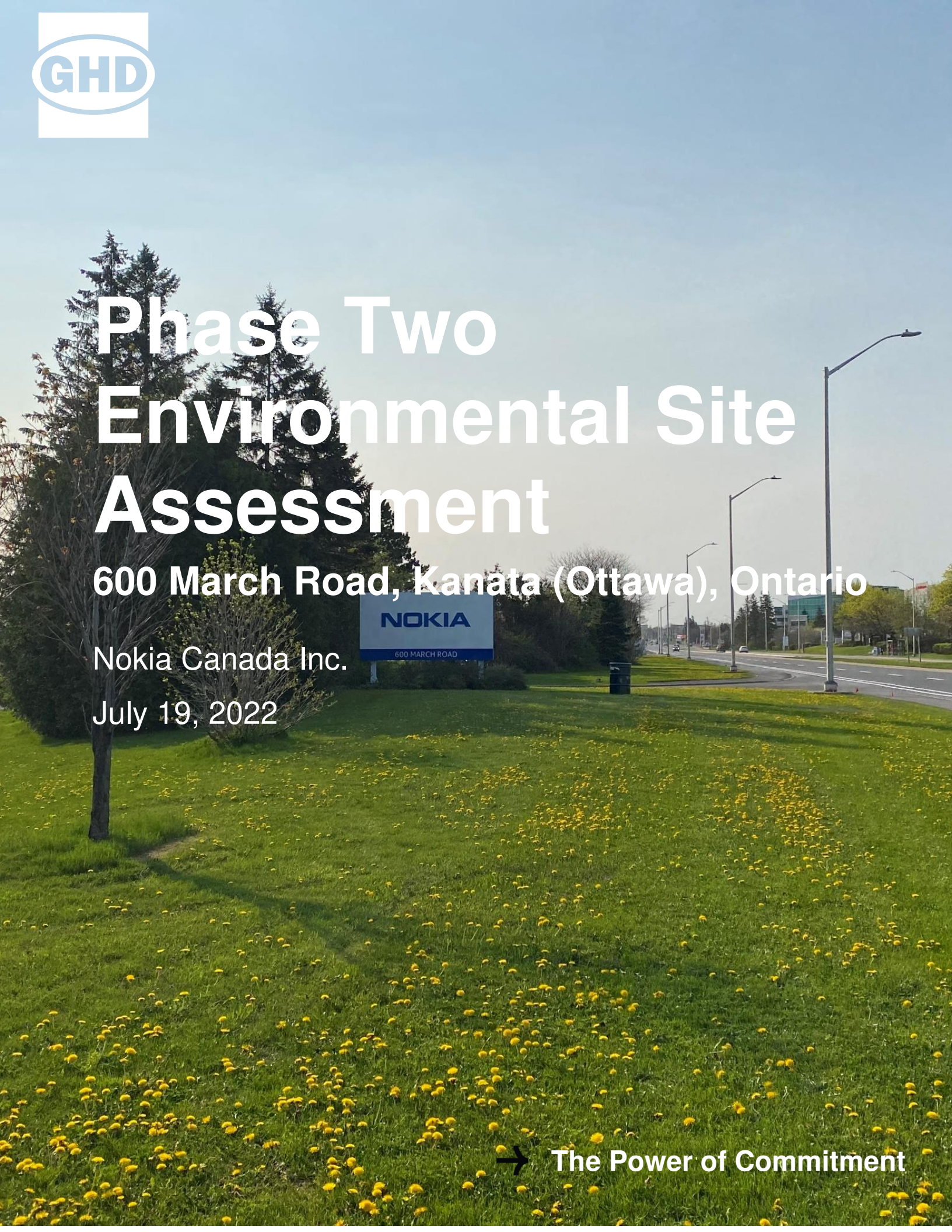


Photo 26 *Evidence of drips/staining below generator (on top of decommissioned flat tank) in outbuilding located in the northeast portion of the Site.*



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The Power of Commitment



Phase Two Environmental Site Assessment

600 March Road, Kanata (Ottawa), Ontario

Nokia Canada Inc.

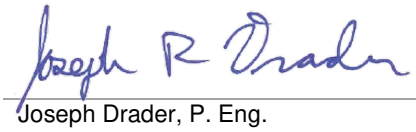
July 19, 2022

→ The Power of Commitment

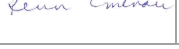
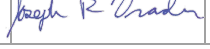
Author(s):



Nidhi Gupta



Joseph Drader, P. Eng.

Project name	Nokia Property/Colliers/300 March Road							
Document title	Phase Two Environmental Site Assessment | 600 March Road, Kanata (Ottawa), Ontario							
Project number	12566614							
File name	12566614-RPT-3-Draft-Phase Two ESA							
Status Code	**Revision**	**Author**	**Reviewer**		**Approved for issue**			
			Name	**Signature**	**Name**	**Signature**	**Date**	
S3	00	Nidhi Gupta	Kevin Emenau, P.Geo.	*On File	Joseph Drader, P.Eng.	*On File	July 05-2022	
S4	01	Nidhi Gupta	Kevin Emenau, P.Geo.		Joseph Drader, P.Eng.		July 19-2022	

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Appendix A Borehole Logs
Appendix B Laboratory Certificates of Analysis
Appendix C Data Quality Assessment and Verification

1. Executive summary

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase Two Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase Two Property. GHD previously prepared a Phase One ESA dated April 20, 2022 at the Site. The Phase One ESA and Phase Two ESA were undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA and Phase Two ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with Ontario Regulation (O. Reg) 153/04, as applicable.

Based on the results of the Phase One ESA (GHD, 2022), the following areas of potential environmental concerns (APECs) were identified:

– APEC #1 – Adjacent Manufacturing Operations
– APEC #2 – Surrounding Dry Cleaning Operations
– APEC #3 – Surrounding Historic Landfill
– APEC #4 – Surrounding Manufacturing Operations
– APEC #5 – Site Diesel Generator/Tank Operations

The Phase Two ESA was recommended based on the APECs identified in the Phase One ESA, in order to assess the soil and groundwater quality at the Site. The Phase Two ESA field activities were completed in May 2022, and included the advancement of advancement of boreholes into the overburden and bedrock stratigraphy, installation of overburden and bedrock monitoring wells, soil field screening and groundwater monitoring, and the collection and laboratory analysis of soil and groundwater samples for testing of contaminants of potential concern (CPCs) based upon visual and olfactory observations. CPCs included metals and inorganic compounds, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), and/or general chemistry parameters.

A summary of the analytical results of the soil and groundwater quality are presented below:

– **Soil Quality** | Based on a review of the soil analytical results, all analyzed parameters had concentrations below the Ministry of the Environment, Conservation and Parks (MECP) Table 7 Standards. No associated impacts were noted for APEC #5 (Site Diesel Generator/Tank Operations).
– **Groundwater Quality** | Based on a review of the groundwater analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Site), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Site Diesel Generator/Tank Operations).
– There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs.

Based on the May 2022 results, it is recommended that monitoring wells (including the wells deemed dry during the May 2022 investigation) in the northern half of the Property be resampled during future residential planning and when applying for a Record of Site Condition with the MECP. This recommendation is to ensure groundwater monitoring and quality data are up to date.

2. Introduction

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase Two Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase Two Property. A Site Location Map and a Site Plan are provided on **Figure 1 and Figure 2**, respectively.

The Phase Two ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase Two ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 – RSC, as applicable.

The objective of the Phase Two ESA was to undertake a preliminary investigation of the general soil and groundwater quality on Site and in the Areas of Potential Environmental Concern (APECs) that were identified to be associated with the Site based on the findings of the 2022 Phase One ESA completed by GHD.

2.1 Site Description

The Phase Two Property is located east of March Road, south Terry Fox Drive, and west of Legget Drive. The Phase Two Property is approximately 10.39 hectares (ha) (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 square metres [m^2] of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads and landscaped areas. The Phase Two Property is currently used for office and research/development activities. Prior to the current development, the Phase Two Property was vacant and/or used for agricultural purposes.

The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa. The Site contains five parcels with the following property identification numbers (PINs) and descriptions:

- 04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.
- 04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.
- 04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.
- 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
- 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

2.2 Property Ownership

The Site is currently owned by Nokia Canada Inc. Contact information for the client representative is listed below:

Mr. Aaron Clodd, Director, Development Management Strategy & Consulting Group
Colliers
181 Bay Street, Suite 1400
Toronto, Ontario M5J 2V1

Phone | (905) 960-4506
Email | aaron.clodd@colliers.com

2.3 Current and Proposed Future Uses

The Site is currently used for office and research/development activities. Prior to the current development, the Phase Two Property was vacant and/or used for agricultural purposes.

GHD's understanding that Nokia intends to amend the zoning of the Phase Two Property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building in the southern portion of the Site, with the potential to add more underground basement levels subject to the bedrock depth, along with residential towers in the central and northern portions of the Site (up to ten buildings based on current concept plans).

2.4 Applicable Site Condition Standards

Generic site condition standards are provided in the Ontario MECP document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. The 2011 standards are referenced in O. Reg. 153/04 – Records of Site Condition, as amended by O. Reg. 511/09 (hereafter referred to as the 2011 MECP Standards).

The Standard provides site condition standards for certain chemicals, based on combinations of six different site-specific conditions, as follows:

– Property use type – agricultural, residential/parkland/institutional, or industrial/commercial/community. The Property had been used for commercial/industrial land uses. The Property is planned to be redeveloped for further residential /parkland and commercia/industrial land use. As such, the standards for both residential/parkland/institutional property use and industrial/commercial/community property use were applied to the Site.
– Restoration of groundwater quality - potable/non-potable. The Property, and all other properties located, in whole or in part, within 250 metres (m) of the boundaries of the property, are supplied by a municipal drinking water system. The Site is not in an area designated on the City of Ottawa official plan as an intake protection zone. The Site is not in an area designated on the City of Ottawa official plan as a well-head protection area (WHPA). As such, the standards for a non-potable groundwater condition are considered applicable to the Site.
– Restoration depth - full depth and stratified depth. For comparative purposes, the full depth standards were applied to the Site.
– Soil texture - coarse or medium to fine. Based on the results of the Phase Two ESA (presented herein), the predominant soil type on Site is considered to be coarse textured. As such, the standards for coarse textured soils were applied to the Site.
– Shallow soil property. The Site is considered to be a shallow soil property, due to less than 2 m of overburden above bedrock existing for a majority of the Site.
– Within 30 m of a water body. There are no water bodies or water courses located on the Site.

The generic 2011 MECP Standards are not applicable if the Site is considered to be an environmentally sensitive area based on the conditions presented in Section 41 of O. Reg. 153/04, as amended. Based on GHD's review, there are no Areas of Natural Scientific Interest (ANSI) or Provincially Significant Wetlands (PSW) identified by the Ministry of Natural Resources and Forestry (MNRF) within the 250 m Study Area. There are no areas designated by the municipality in its current official plan (Bylaw 2008-250-Zoning) as Environmentally Protected zoning ('EP') within the Study Area. As the Site does not contain an area of natural significance as defined by O. Reg. 153/04, and properties within 250 m of the Site limits do not contain areas of natural significance, the Site is not classified as an environmentally sensitive property (O. Reg. 153/04, s41).

Based upon the above-described assessments, the O. Reg. 153/04 Table 7: General Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (residential/parkland/institutional and industrial/commercial/community property use; coarse-grained soil texture) is considered the applicable Site comparison.

2.5 Limitations

This report has been prepared by GHD for Nokia Canada Inc. and may only be used and relied on by Nokia Canada Inc. for the purpose agreed between GHD and Client.

GHD otherwise disclaims responsibility to any person other than Client arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

3. Background Information

3.1 Physical Setting

The Site is currently used for office and research/development activities. Prior to the current development, the Phase Two Property was vacant and/or used for agricultural purposes. The Site is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads and landscaped areas.

Information regarding adjacent/surrounding properties within the Phase Two Study Area are noted below:

North

The Site is bound to the north by Terry Fox Drive, beyond which are the following properties:

- Wooded area (north) and strip mall property (northeast) at 700 March Road with offices (Scotia Bank, dental, optometry, and physio), stores (convenience market, barber, video games, and cleaners [no dry cleaning observed]) and restaurants (Burger King, Subway, Chinese Food, Barley Mow) to the north.
- Residential development to the north (off McKinley Drive) and to the northwest beyond intersection of March Road and Terry Fox Drive.
- Beyond the commercial property to the north is a vacant, wooded property, followed by a Shell gas station with car wash building at 720 March Road.
- Beyond wooded area to the northeast are office buildings at 360 and 362 Terry Fox Drive (Artaflex [integrated electronics services] and B.J. Kane Electric Ltd. [commercial and industrial electrical services], respectively).

West

The Site is bound to the west by March Road, beyond which are the following properties (north to south):

- Office buildings at 603 March Road and 375 Terry Fox Drive (Renesas [microcontrollers, analogue, and power devices] and TalentLab [IT Recruiters]).
- Vacant, wooded property.
- Commercial strip mall property at 591 March Road; includes following businesses: insurance, veterinary hospital, restaurants, pet grooming and supplies, spa.
- Power Muscle & Fitness (Gym) property at 555 March Road.

– Commercial property (insurance company and medicine wellness centre) at 525 March Road.
– Office building at 88 Hines Road (Telemus [electric warfare systems] and CCI Antennas [wireless equipment]).
– Office buildings at 80 and 84 Hines Road (multiple businesses at both buildings).
– Royal Canadian Legion at 70 Hines Road.
– Office buildings at 505 March Road and 50 Hines Road (multiple businesses at both buildings).

South

The Site is bound to the south by the following properties:

– Office and possible manufacturing (Sanmina Corporation – Optical, RF/Microwave products) at 500 March Road (adjacent).
– Vacant, wooded property with evidence of a creek running through it at 490 March Road.
– Office building at 3001 Solandt Road (flex [electronics services]).
– Office building at 40 Hines Road (Trend Micro [cybersecurity]; across March Road to the southwest).
– Office building at 495 March Road (multiple businesses; across March Road to the southwest).

East

The Site is bound to the east by Legget Drive, beyond which are the following properties (south to north):

– Office building at 425 Legget Drive (Innovapost, Avaya, Renaissance).
– Office building at 515 Legget Drive (multiple businesses).
– Brookstreet Hotel and Conference Center at 525 Legget Drive, beyond which is a golf course and stormwater ponds.
– Office building at 535 Legget Drive (multiple businesses).
– Office buildings at 555 Legget Drive (multiple businesses).
– Office building at 359 Terry Fox Drive (multiple businesses).

Based on the 2022 GHD Phase One ESA (refer to Section 3.2):

– There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase Two Study Area. The closest significant surface water body is the Ottawa River located approximately 3.2 kilometres (km) northeast of the Site.
– Based on the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.
– The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catch basins in parking lot and driveways, as well as from other surrounding properties.
– The Property, and all other properties located, in whole or in part, within 250 m of the boundaries of the property, are supplied by a municipal drinking water system. The Site is not in an area designated on the City of Ottawa official plan as an intake protection zone. The Site is not in an area designated on the City of Ottawa official plan as a WHPA.
– GHD is not aware of any historical utility and/or water services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

3.2 Past Investigations

The following investigations have been completed at the Site:

– *"Phase One Environmental Site Assessment – 600 March Road, Ottawa, Ontario", prepared by GHD, dated April 20, 2022*
– *"Preliminary Geotechnical Investigation and Hydrogeological Assessment", prepared by GHD, dated April 7, 2022*

Information from the 2022 Phase One ESA report is referenced in Section 4.2 (Phase One Conceptual Site Model), as well as included in other sections of this report, as applicable. The Phase One Conceptual Site Model with the location of applicable APECs and potentially contaminating activities (PCAs) is presented on **Figure 3**.

Applicable information from the 2022 GHD Preliminary Geotechnical Investigation and Hydrogeological Assessment report is refenced in Section 6.

4. Scope of the Investigation

The Phase Two ESA included assessments of the soil and groundwater quality on Site. The Phase Two ESA field activities included the advancement of boreholes and installation of monitoring wells, field screening, and the collection and laboratory analysis of soil and groundwater samples as described in detail below. The data generated within GHD's investigative activities has been presented herein.

4.1 Media Investigated

Based on the APECs identified at the Site, the investigation of the soil and groundwater quality on Site included the following:

Media Type	Date	Borehole/Well, Test Hole, & Test Pit	Sample Location	Analytical Parameters	APEC Info
Soil	April 2022	S-001, S-002, S-003, S-004	Shallow Overburden	BTEX, PHC F1-F4	Exterior diesel above ground storage tank (AST) and Generator (PCA #28; APEC #5) within fenced in area surrounding generator at the Site
Groundwater	May 2022	BH01-22 BH02-22, BH11-22, BH12-22	Overburden Bedrock	Metals/Inorganics, PAHs, PHC F1-F4, VOCs	Southern Property Boundary adjacent to electronic manufacturing operations (PCA #19; APEC #1) at 500 March Road
		BH13-22, BH14-22, BH15-22, BH16-22, BH17-22 BH16-22, BH17-22	Bedrock	VOCs Metals/Inorganics, PAHs, PHC F1-F4, VOCs	Northwest Property Boundary – Operation of former dry cleaners (PCA #37; APEC #2) at 591 March Road; Historic March Landfill with associated adjacent groundwater contamination plume (PCA #58; APEC #3); and electronic manufacturing operations (PCA #19; APEC #4) at 603 March Road
		BH10-22	Bedrock	BTEX, PHC F1-F4	Exterior diesel above ground storage tank (AST) and Generator (PCA #28; APEC #5) within fenced in area surrounding generator at the Site

Notes:
BTEX – Benzene, toluene, ethylbenzene, and xylene
PAHs – Polycyclic Aromatic Hydrocarbons
PHC F1-F4 – Petroleum Hydrocarbon Fractions F1 to F4
VOCs – Volatile Organic Compounds

The borehole, monitoring well, and sampling locations are shown on **Figure 4.**

There are no water bodies located on the Site; therefore, surface water and sediment were not sampled during the Phase Two ESA. Soil vapour sampling was not completed as part of the Phase Two ESA.

4.2 Phase One Conceptual Site Model

The Site is located at 600 March Road in Kanata (Ottawa), Ontario, east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa.

The Site is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas.

The Site is currently owned by Nokia Canada Inc., and is currently used for office and research/development activities. Prior to Nokia owning/operating the Site, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent. Prior to the current development, the Site was vacant and/or used for agricultural purposes.

The general topography at the Site and surrounding area is noted to be relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Site. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated April 7, 2022) a Site investigation was carried out between January 28 and February 6, 2022, to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. A summary of the applicable subsurface conditions is noted below:

- Topsoil (organic material with rootlets), and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.9 metres below ground surface (mBGS). Silty clay to clay deposit was encountered below topsoil or subbase material.
- Auger refusal (presumed bedrock) was encountered at depths ranging from 0.4 to 3.6 mBGS in all boreholes.
- Groundwater was not encountered in the overburden stratigraphy.
- Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 metres above mean sea level (mAMSL) on February 9, 2022. The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook (actual direction could not be confirmed based on well locations and dry well conditions). It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.

Based on the information reviewed and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered an area of natural significance.

The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The Site is serviced with natural gas provided by Enbridge for various building operations/appliances. The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site.

1. **Adjacent Manufacturing Operations** | Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at

500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.

2. **Surrounding Dry Cleaning Operations** | The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2**.
3. **Surrounding Historic Landfill** | The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3**.
4. **Surrounding Manufacturing Operations** | Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**
5. **Site Diesel Generator/Tank Operations** | Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

The Phase One ESA Conceptual Site Model, including the location of PCAs and APECs, is depicted on **Figure 3**. Based on the results, the contaminants of concern were identified as metals/inorganics, PAHs, PHCs, VOCs, and/or BTEX.

4.3 Deviations from the Sampling and Analysis Plan

Deviations from the sampling and analysis plan occurred during the field program due to several dry wells and lack of groundwater exhibited in a few of the monitoring wells installed in May 2022. A summary of the deviations are described below:

– Monitoring wells BH13-22, BH15-22, and BH16-22 could not be sampled due to wells being dry and/or extremely limited recharge of groundwater observed at these wells.
– Metals/Inorganics and PAH parameters were removed from analysis from sample collected at BH11-22 due to limited recharge of groundwater observed at this well.

4.4 Impediments

There were no impediments encountered during the investigation.

5. Investigation Methods

5.1 General

The following investigative activities were undertaken between April 28 and May 26, 2022, and are described in detail in the following subsections:

– Advancement of boreholes.

- Installation of groundwater monitoring wells.
- Collection of field screening measurements and observations.
- Collection and laboratory analysis of soil and groundwater samples.
- Groundwater field measurements of water quality parameters.
- Collection of groundwater level measurements.
- Residue management.
- Quality assurance and quality control measures.
- Elevation surveying.

The field investigation activities were completed in accordance with MECP protocols, GHD's standard operating procedures (SOPs), and standard industry practice.

Prior to completing the investigation activities undertaken by GHD, a Site-specific Health and Safety Plan (HASP) was prepared to provide specific guidelines and established procedures for the protection of personnel performing the Site investigation activities. In addition, the appropriate public utility notifications were completed and a private utility locator was retained to assist with on-Site utility clearances. Private utility locate services were completed prior to undertaking subsurface investigative activities.

5.2 Drilling and Boring Activities

As part of the Preliminary Geotechnical Investigation and Hydrogeological Assessment (GHD, April 2022) conducted at the Site between January 28 and February 2, 2022, ten boreholes BH01-22 to BH10-22 were drilled to refusal or within bedrock. Borehole BH01-22 (overburden) and boreholes BH-02-22, BH03-22, BH06-22, and BH10-22 (bedrock) were originally installed with monitor wells for groundwater level measurements and hydrogeological assessment purposes, but were later used to investigate groundwater quality conditions associated with APEC #1 and APEC #5.

On April 28, 2022, hand shoveling was used to collect soil samples (S-001 to S-004) at the existing exterior diesel AST and Generator (APEC #5) located on the Site. Soil was sampled at a depth of approximately 0.3 mBGS.

On May 11 and 12, 2022, seven boreholes (BH11-22 to BH17-22) were advanced on Site using a track-mounted drill rig, and each of the boreholes was instrumented as a monitoring well to investigate groundwater quality conditions associated with APEC #1 to #4. GHD retained Aardvark Drilling Inc. (Aardvark), a MECP licensed driller of Carleton Place, Ontario, to complete the drilling activities.

The location of the boreholes and monitoring wells are shown on **Figure 4**. Borehole and monitoring well installation details, including geological descriptions of the soil encountered, are provided in borehole logs presented in **Appendix A.** Borehole logs were not created for the four shallow soil samples (S-001 to S-004).

Prior to use and between each borehole, the drilling and sampling equipment was thoroughly cleaned using Alconox® soap and potable water rinse.

5.3 Soil Sampling

Soil samples S-001 to S-004 were collected near and around the existing exterior diesel AST and Generator (APEC #5) on Site. Soil sample collection was facilitated through the use of a stainless steel shovel. Soil samples were collected at a depth of approximately 0.3 mBGS, directly from the shallow boring. Soil samples were not collected from the drilled borehole locations

Soil samples obtained from each borehole were qualitatively and quantitatively screened for the presence of impact. Qualitative screening was based on visual and olfactory observations, while quantitative screening was based on the presence of undifferentiated VOCs in the headspace of soil samples collected as measured in the field (refer to Section 5.4 for further screening details).

Select soil samples were submitted for laboratory analysis of VOCs and PHCs. Soil samples were collected in laboratory supplied glass containers which were placed in a cooler containing ice for sample preservation. Undisturbed samples for VOC analysis were placed directly in sample containers provided by the laboratory. All soil samples were collected using the required sampling techniques in accordance with O. Reg. 153/04, including the methanol field preservation method for those soil samples being submitted for analysis of PHC F1 and VOCs. Samples were submitted to the laboratory for analysis under chain-of-custody protocol. A sample key for the submitted soil samples is presented in **Table 1**.

5.4 Field Screening Measurements

As discussed in Section 5.3, soil samples of the overburden were taken and placed into a sealable plastic bag for headspace screening. The headspace soil samples were screened for undifferentiated VOC vapour readings using a photo-ionization detector (PID). Prior to screening, the field screening equipment was inspected and calibrated according to the manufacturer's recommendations by GHD personnel.

The results of the field screening for all collected soil samples are presented in **Table 3**. PID screening results ranged from 0.0 to 0.2 parts per million (ppm) for VOC headspace readings.

5.5 Groundwater: Monitoring Well Installation

Between January and May 2022, groundwater monitoring wells were installed in twelve of the seventeen on-Site boreholes advanced as part of the geotechnical, hydrogeological, and environmental investigations. The locations of the monitoring wells are presented on **Figure 4**.

The monitoring well at BH01-22 was installed in the overburden stratigraphy, originally for geotechnical and hydrogeological assessment purposes in February 2022 (Note: BH01-22 was observed to be dry in February 2022), but later used for collection of groundwater samples for laboratory analysis in May 2022. The remaining 11 monitoring wells (BH02-22, BH03-22, BH6-22, and BH10-22 to BH17-22) were all installed/sealed in the deeper bedrock to facilitate the hydrogeological assessment in February 2022 (only BH02-22, BH03-22, BH06-22 and BH10-22; Note: BH03-22 was observed to be dry in February 2022) and collection of groundwater samples for laboratory analysis in May 2022.

The monitoring wells were constructed with a 2-inch (") (50 millimetre [mm]) diameter, Schedule 40 polyvinyl chloride (PVC) riser and No. 10 slot size well screens (either 1.5 or 3 m screen length). A silica sand pack was placed in the annular space between the PVC screen/riser pipe and the borehole to a height of at least 0.3 m above the top of the screen. A bentonite seal was placed directly above the sand pack and extended to within 0.3 m of the ground surface. To complete the installation, an expandable J-plug or a 2" PVC cap was placed on the riser pipe to protect against debris falling and/or surface runoff infiltrating into the well and a protective aboveground steel casing (flush-mount construction) with a concrete collar was placed around each well to cover the top of the riser pipe. The groundwater monitoring well construction and installation details are shown on the stratigraphic and instrumentation logs provided in **Appendix A** Monitoring wells BH01-22 to BH03-22, BH06-22, and BH10-22 were developed on February 3, 2022, and monitoring wells BH11-22 to BH17-22 were developed on May 16th to May 18th, 2022, in order to remove all residual drilling fluids and/or remove as much silt from the wells as possible. A minimum of three to five well volumes were attempted for each well, although development of BH11-22 to BH17-22 took over 3-days to complete due to the slow recharge and lack of groundwater in several of the monitoring wells. The monitoring wells were allowed to stabilize for at least 1-week prior to the completion of groundwater sampling activities.

5.6 Groundwater Field Measurements of Water Quality Parameters

In order to ensure that samples representative of on-Site groundwater conditions was obtained, each monitoring well was purged prior to groundwater sample collection using dedicated Waterra™ valves and tubing. The following protocol was generally followed at each monitoring well location during well purging activities:

– Groundwater level measurements were collected prior and subsequent to well development activities using a calibrated oil/water interface probe. The depth to water was measured relative to a specific reference point in the monitoring well. Reference and groundwater levels and elevations are presented in **Table 2.**
– Where Waterra™ sampling techniques were used, a minimum of three well volumes of water were purged from the monitoring well. In the event that slow groundwater recharge conditions were encountered, the well was purged until dry and then allowed to recover prior to sample collection. Field measurements of temperature, pH, turbidity, and electrical conductivity were taken using a water quality meter after each purged well volume was removed until consistent field measurements were recorded indicating that water in the well was representative of the actual groundwater conditions**.**
– Groundwater in the monitoring well was allowed to recover and settle prior to sample collection to reduce sediment agitation and mobilization in volatile and semi-volatile samples.

5.7 Groundwater Sampling

Groundwater samples were collected from a total of seven monitoring wells (BH01-22, BH02-22, BH10-22, BH11-22, BH12-22, BH14-22, and BH17-22) on May 17, May 25, and May 26. Refer to Section 5.6 for details on the sampling method.

Groundwater samples were collected and placed directly into laboratory-supplied sample containers specific to the analytical parameters. Groundwater samples were submitted for laboratory analysis of one or more of the following parameters: O. Reg. 153/04 metals/inorganics, PHC F_1 to F_4, VOCs, BTEX, and/or PAHs. Groundwater samples collected for metals analysis were field filtered using a 0.45 micron filter prior to sample collection. Samples were stored in coolers chilled with ice for sample preservation and submitted to the laboratory for analysis under chain-of-custody protocol. The chain-of-custody forms document the condition and handling of the samples throughout the collection, transportation, and final analysis of the samples. A sample key for the submitted groundwater samples is presented in **Table 1**.

5.8 Sediment Sampling

Sediment sampling was not completed during the Phase Two ESA as sediment was not identified as a potentially contaminated media.

5.9 Analytical Testing

Soil and groundwater samples collected during GHD's investigation were submitted to ALS Global (ALS) in Ottawa, Ontario. ALS is a member of the Standards Council of Canada (SCC) and Canadian Association of Environmental Analytical Laboratories (CAEAL). Copies of the analytical laboratory reports are provided in **Appendix B.**

5.10 Residue Management Procedures

Soil cuttings, equipment decontamination wash water and purge/well development water for GHD's investigative activities were containerized in 205-litre drums for off-Site disposal. Soil cuttings and wash water/purge/development waters are being temporarily stored on Site.

5.11 Elevation Surveying

The elevations of the boreholes were surveyed using a survey grade GPS equipment referenced to the NAD 83 UTM Zone 18 and geodetic datum, for boreholes BH01-22 to BH10-22 in February 2022. Boreholes BH11-22 to BH17-22 were surveyed in May 2022 using GPS and laser level equipment, and tying in elevations initially collected in February 2022.

5.12 Quality Assurance and Quality Control Measures

A Quality Assurance/Quality Control (QA/QC) program was implemented during the program to ensure quality data was generated. This program involved both field and laboratory QA/QC measures.

Samples were collected in laboratory supplied sampling containers with the appropriate preservative in accordance with O. Reg. 153/04, including the methanol field preservation method for those soil samples being submitted for analysis of PHC F_1 and VOCs.

Samples were submitted under chain-of-custody protocol to an analytical laboratory for chemical analysis. For quality assurance, the following was undertaken:

- Between collection of each soil and groundwater sample, GHD field personnel donned a new pair of disposable nitrile gloves.
- Prior to use and between each borehole location, the drilling and non-dedicated sampling equipment was thoroughly cleaned using Alconox® soap and potable water rinse.
- Stainless steel sampling equipment was used and cleaned using Alconox® soap and potable water rinse between each sample collection event.
- Wherever possible, dedicated sampling equipment (e.g., LDPE tubing, fittings, Ziploc® bags, etc.) was used to reduce the potential for cross contamination.
- The groundwater monitoring wells were equipped with a dedicated Waterra™ foot valve and polyethylene tubing for well development activities.

To validate the field analysis, QA/QC trip blanks were also submitted (generally one per laboratory submission) for soil and groundwater where analysis of volatile parameters were required QC samples were also analysed by the laboratory as required by their analytical methods. A Data Quality Assessment and Verification memorandum is presented in **Appendix C**.

6. Review and Evaluation

The results of the Site investigation activities are described in the following sections.

6.1 Geology

In general, soils encountered at the borehole locations consisted of a surface layer of topsoil or asphalt pavement, overlying a fill material and discontinuous layer of native silty clay to clay, overlying sandstone bedrock with dolomite interbeds. Shallow bedrock ranging in depths of 0.4 to 1.37 mBGS was encountered in the northern and central portions of the Site and gradually increased to depths of up to 1.4 to 4.7 mBGS in the southern portion of the site boundary.

General descriptions of the subsurface conditions are summarized in the following sections, with a graphical representation of each borehole presented on borehole logs attached in **Appendix A**.

6.1.1 Surface Material

Topsoil was encountered in at boreholes BH07-22, BH09-22, and BH11-22 to BH17-22 to depths ranging from 0.6 to 0.9 mBGS and generally constituted of organic material with rootlets.

An asphalt layer with thickness of 100 mm was encountered at the ground surface at the location of boreholes BH02-22, BH03-22, BH04-22, BH05-22, BH06-22, BH08-22, and BH10-22. Granular base/subbase (fill material) encountered below the asphalt consisted of sandy silt, sandy gravel to gravelly sand, and extends to depths ranging from 0.4 to 0.9 mBGS. Fill material was also encountered at the surface in borehole BH01-22 and extends to depth of 0.6 mBGS.

6.1.2 Silty Clay to Clay

Silty clay to clay deposits were encountered below the fill or topsoil in boreholes BH01-22 to BH05-22, BH07-22, BH11-22, and BH12-22 at depth of 0.6 to 4.7 mBGS.

6.1.3 Sandy Silt to Clayey Silt

Sandy silt to clayey silt deposits were encountered below topsoil in boreholes BH13-22, BH14-22, and BH15-22 directly above bedrock. The silt deposit extended to depths ranging from 0.6 to 1.4 mBGS.

6.1.4 Bedrock

Bedrock (including presumed due to auger refusal) was encountered at depths ranging from 0.4 to 4.7 mBGS. Upon refusal on the presumed possible bedrock, boreholes BH02-22, BH03-22, BH06-22, BH07-22, and BH10-22 were extended an additional 1.6 m to 6.4 m below the refusal using HQ diamond coring methods to confirm the presence, type, and quality of bedrock. Bedrock at boreholes BH11-22 to BH17-22 were drilled an additional 3.2 to 5.2 m below refusal using air hammer methods.

Based on retrieved rock core and rock exposures, bedrock at the site consists of slightly weathered to fresh, thinly to medium bedded, light grey with yellow bands dolomitic sandstone of the Beekmantown Group per the published Paleozoic geology map.

Rock Quality Designation (RQD) values measured on the bedrock core samples generally range from 63 to 100 percent, indicating fair to excellent quality rock, except for bedrock at borehole BH10-22 where RQD value of 36 percent indicating poor quality rock is noted at depths of 3.5 to 4.0 mBGS. This low RQD value measured was due to mechanical break that occurred during the last core run of borehole BH10-22 drilling operations, resulting in loss of some of the drilled core sample.

6.2 Groundwater Elevations and Flow Direction

Groundwater level measurements were collected from the on-Site monitoring wells using a calibrated electronic oil/water interface probe (i.e., Solinst) or a Solinst water level tape. The depth to water was measured relative to a specific reference point in the monitoring well (i.e., the top of the monitoring well riser pipe). Based on the survey information of the top of riser pipe elevation, the groundwater elevation was calculated by subtracting the water level measurement from the reference point elevation. Groundwater level measurements and elevations collected on May 26, 2022 are provided in **Table 2**, with groundwater elevations, contours, and flow direction depicted on **Figure 5**.

Based on the water level measurements recorded on May 26, 2022, the direction of groundwater flow across the Site in the bedrock aquifer appears to be highly variable and heading in multiple directions. Due to lack of groundwater in portions of the overburden stratigraphy and multiple dry bedrock wells, groundwater flow may be affected by differential pathways in the bedrock aquifer. It should be noted that the groundwater table is subject to seasonal fluctuations and in response to precipitation and snowmelt events. Also, it would be expected that water may be

perched within fill materials or the poor bedrock. Future monitoring would determine if the flow patterns were accurate throughout the year.

There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

6.3 Groundwater Hydraulic Gradients

The hydraulic gradient would be calculated by dividing the difference in hydraulic head by the lateral distance between monitoring locations. As noted in Section 6.2, the May 26, 2022 direction of bedrock groundwater flow across the Site appeared to be highly variable and heading in multiple directions, as well as observations of limited groundwater in portions of the overburden stratigraphy and multiple dry bedrock wells. Hydraulic gradients would also be highly variable at this time, and affected by differential pathways in the bedrock aquifer and seasonal fluctuations. Future monitoring would determine if an accurate hydraulic gradient could be calculated.

Based on the hydrogeological assessment conducted in February 2022 (GHD, April 2022) and the results from single well response tests, the horizontal hydraulic conductivity (K_h) of the Beekmantown Group Formation at the Site ranges from 2.073×10^{-6} (BH10-22) to 3.849×10^{-5} centimetre per second (cm/sec) (2.073×10^{-4} to 3.849×10^{-3} [metres per day] m/day) (geometric mean 8.93×10^{-6} cm/sec [8.93×10^{-4} m/day]).

6.4 Soil: Field Screening

During the investigation, field screening of collected soil samples was undertaken for organic vapours using a MiniRAE photo-ionization detector (PID). Any visual or olfactory evidence of potential impacts was also documented. The results of the soil field screening and corresponding sample depth intervals are provided on **Table 3.**

During the drilling and groundwater sampling activities, there was no field evidence of impact identified nor evidence of light or dense non-aqueous phase liquids on the Site.

6.5 Soil Quality

Soil samples were selected for laboratory analysis around the exterior AST and diesel generator building (APEC #5) located on the Site. Surface soil samples were taken in four locations, S-001, S-002, S-003, and S-004. Five samples total were taken, comprised of four samples and one duplicate sample. All samples were taken from a depth of approximately 0.3 mBGS.

No parameters were found above MECP Table 7 Standards. During the drilling activities, there was no field evidence of impact identified nor evidence of light or dense non-aqueous phase liquids on the Site.

Laboratory analytical reports are provided in **Appendix B**. All soil analytical results are presented on **Table 3**. A summary of the maximum detected soil concentrations is presented in **Table 4.**

6.6 Groundwater Quality

Groundwater samples were collected for laboratory analysis from BH01-22, BH02-22, BH10-22, BH11-22, BH12-22, BH14-22, and BH17-22. Laboratory analytical reports are provided in **Appendix B**. All groundwater analytical results are presented on **Table 5**. A summary of the maximum detected groundwater concentrations is presented in **Table 6.** No parameters were found above MECP Table 7 Standards, with the exception of chloride concentrations in bedrock monitoring well BH17-22. This exceedance is assumed to be associated with snow plowing and road salt operations near the March Road and Terry Fox intersection.

During the groundwater sampling activities, there was no field evidence of impact identified nor evidence of light or dense non-aqueous phase liquids on the Site.

6.7 Sediment Quality

Sediment associated with water bodies was not identified as Potentially Contaminated Media on Site; therefore, sediment was not sampled during the Phase Two ESA.

6.8 Phase Two Conceptual Site Model

Introduction

The Site is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Site is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas.

The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa.

The Site contains five parcels with the following property identification numbers (PINs) and descriptions:

– 04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.
– 04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.
– 04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.
– 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
– 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

The Site is currently used for office and research/development activities. Prior to the current development, the Site was vacant and/or used for agricultural purposes.

It is GHD's understanding that Nokia intends to amend the zoning of the Site to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building in the southern portion of the Site, with the potential to add more underground basement levels subject to the bedrock depth, along with residential towers in the central and northern portions of the Site (up to ten buildings based on current concept plans).

The Phase Two ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 - RSC, as applicable.

The objective of the Phase Two ESA was to undertake a preliminary investigation of the general soil and groundwater quality on Site and in the APECs that were identified to be associated with the Site based on the findings of the 2022 Phase One ESA completed by GHD.

Based on the results of the Phase One ESA (GHD, 2022), the following APECs were identified:

– APEC #1 – Adjacent Manufacturing Operations
– APEC #2 – Surrounding Dry Cleaning Operations
– APEC #3 – Surrounding Historic Landfill
– APEC #4 – Surrounding Manufacturing Operations
– APEC #5 – Site Diesel Generator/Tank Operations

The Phase Two ESA activities included the advancement of boreholes, installation of monitoring wells, field screening, and the collection and laboratory analysis of soil and groundwater samples.

Potential Contaminant Distribution and Transport Pathways

GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catchbasins in parking lot and driveways, as well as from other surrounding properties. The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The buildings are heated by electric forced air, radiant, and baseboard heaters. The Site is serviced with natural gas provided by Enbridge for humidification units, kitchen appliances, and water heaters.

Based on the historical information reviewed, subsurface structures and utilities that may affect contaminant distribution and transport on Site included the following (which date back to the early development of the Site): utility backfill trenches, and abandoned utility conduits.

Physical Setting

The general topography in the Phase Two Study area is noted to be relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Geology | In general, soils encountered at the borehole locations consisted of a surface layer of topsoil or asphalt pavement, overlying a fill material and discontinuous layer of native silty clay to clay, overlying sandstone bedrock with dolomite interbeds.

Hydrogeology | Based on the water level measurements recorded on May 26, 2022, the direction of groundwater flow across the Site in the bedrock aquifer appears to be highly variable and heading in multiple directions. Due to lack of groundwater in portions of the overburden stratigraphy and multiple dry bedrock wells, groundwater flow may be affected by differential pathways in the bedrock aquifer. It should be noted that the groundwater table is subject to seasonal fluctuations and in response to precipitation and snowmelt events. Also, it would be expected that water may be perched within fill materials or the poor bedrock. Future monitoring would determine if the flow patterns were accurate throughout the year.

Applicable Site Condition Standards

The soil and groundwater analytical results were assessed to the MECP Table 7 Standards for Residential/Parkland/Institutional and Industrial/Commercial/Community property uses for a non-potable groundwater for coarse textured soils.

Nature and Extent of Impact

The soil and groundwater quality investigations included the advancement of boreholes and the instrumentation of the boreholes as groundwater monitoring wells. The investigative locations are shown on **Figure 4**. A summary of the analytical results is presented below.

Soil Quality | Based on a review of the soil analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards. No associated impacts were noted for APEC #5 (Site Diesel Generator/Tank Operations).

Groundwater Quality | Based on a review of the groundwater analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Site), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Site Diesel Generator/Tank Operations).

There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

As described in the Phase One ESA, five APECs were identified for the Site. The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs.

Potential Migration Pathways

No preferential migration pathways were identified associated with the results observed.

Climatic and Meteorological Conditions

The effect of climatic or meteorological conditions (such as the fluctuation of the groundwater table) on the distribution and migration of the contaminants on Site is not considered to be significant.

Vapour Intrusion

There are no vapour intrusion concerns associated with the Site.

7. Conclusions

The objective of the Phase Two ESA activities were to undertake investigations of the general soil and groundwater quality on Site and in the APECs that were identified to be associated with the Site. The Phase Two ESAs included the advancement of boreholes, installation of monitoring wells, field screening, and the collection and laboratory analysis of soil and groundwater samples. Based on the findings of the Phase Two ESA, the following conclusions are provided:

– All analyzed soil parameters had concentrations below the MECP Table 7 Standards. No associated impacts were noted for APEC #5 (Site Diesel Generator/Tank Operations).
– All analyzed groundwater parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Site), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Site Diesel Generator/Tank Operations).
– There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs.

Based on the May 2022 results, it is recommended that monitoring wells (including the wells deemed dry during the May 2022 investigation) in the northern half of the Property be resampled during future residential planning and when applying for a Record of Site Condition with the MECP. This recommendation is to ensure groundwater monitoring and quality data are up to date.

Tables

Sample Key
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Identification	Monitoring Location	Sampling Date	Sample Parameters
Soil Samples			
S-12566614-042822-DA-001	SS-001	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-002	SS-002	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-003	SS-003	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-004	SS-003 (duplicate)	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-005	SS-004	April 28, 2022	BTEX, PHCs
Groundwater Samples			
GW-12566614-051722-NG-001	BH01-22	May 17, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-051722-NG-002	BH02-22	May 17, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-051722-NG-003	BH10-22	May 17, 2022	PHCs/BTEX
GW-12566614-051722-NG-004	BH02-22 (duplicate)	May 17, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-052522-NG-005	BH12-22	May 25, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-052622-NG-006	BH17-22	May 26, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-052622-NG-007	BH14-22	May 26, 2022	VOCs
GW-12566614-052622-NG-008	BH11-22	May 26, 2022	Metals/Inorganics, PHCs, VOCs

Notes:
BTEX – Benzene, toluene, ethylbenzene, and xylene
PAHs – Polycyclic Aromatic Hydrocarbons
PHC – Petroleum Hydrocarbon Fractions F1 to F4
VOCs – Volatile Organic Compounds

Table 2

Groundwater Elevations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Well Identification	Grade Elevation (mAMSL)	Well Riser Elevation (mAMSL)	Well Bottom Depth (mBGS)	Well Bottom Elevation (mAMSL)	Static Water Level May 26, 2022 (mBTOR)	Static Water Elevation May 26, 2022 (mAMSL)
BH01-22 (Overburden)	80.18	80.06	3.42	76.75	2.45	77.61
BH02-22	79.72	79.65	8.38	71.33	3.14	76.51
BH03-22	80.71	80.61	2.82	77.88	0.92	79.68
BH06-22	79.61	79.51	3.39	76.22	2.74	76.78
BH10-22	80.43	80.39	3.85	76.58	2.53	77.86
BH11-22	80.21	80.12	8.17	72.04	5.93	74.19
BH12-22	79.60	79.49	7.70	71.90	2.05	77.44
BH13-22	81.95	81.83	6.01	75.94	NA (dry)	NA (dry)
BH14-22	82.19	82.12	6.00	76.20	3.57	78.55
BH15-22	81.94	81.88	6.05	75.89	NA (dry)	NA (dry)
BH16-22	81.49	81.44	6.35	75.14	NA (dry)	NA (dry)
BH17-22	81.48	81.41	5.71	75.77	5.36	76.05

Notes:
mAMSL - metres above mean sea level
mBGS - metres below ground surface
mBTOR - metres below top of riser
NA - not applicable

Table 3

Summary of Soil Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:				**SS-001**	**SS-002**	**SS-003**	**SS-003**	**SS-004**
Sample ID:				**S-12566614-0428-DA-001**	**S-12566614-0428-DA-002**	**S-12566614-0428-DA-003**	**S-12566614-0428-DA-004**	**S-12566614-0428-DA-005**
Sample Date:				**4/28/2022**	**4/28/2022**	**4/28/2022**	**4/28/2022**	**4/28/2022**
Sample Depth:				**0.30 mbgs**	**0.30 mbgs**	**0.30 mbgs**	**0.30 mbgs**	**0.30 mbgs**
Sample Type:				**Original**	**Original**	**Original**	**Duplicate of SS-003**	**Original**
PID Readings (ppm):				**0.0**	**0.1**	**0.2**	**0.2**	**0.1**
Parameters	**Units**	**MECP Table 7 Residential**	**MECP Table 7 Industrial/ Commercial**					
Volatile Organic Compounds								
Benzene	ug/g	0.21	0.32	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Ethylbenzene	ug/g	2	9.5	<0.018	<0.018	<0.018	<0.018	<0.018
Toluene	ug/g	2.3	68	<0.080	<0.080	<0.080	<0.080	<0.080
Xylenes (Total)	ug/g	3.1	26	<0.050	<0.19	<0.050	<0.050	<0.050
Petroleum Hydrocarbons Fractions								
PHC F1 (C6-C10)	ug/g	55	55	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (C10-C16)	ug/g	98	230	<10.0	<10.0	<10.0	<10.0	<10.0
PHC F3 (C16-C34)	ug/g	300	1700	<50.0	<50.0	<50.0	<50.0	<50.0
PHC F4 (C34-C50)	ug/g	2800	3300	<50.0	<50.0	<50.0	<50.0	<50.0

Notes:
m bgs - metres below ground surface
PID - Photoionization Detector (parts per million (PPM))
µg/g - microgram per gram
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (coarse textured soil).

Table 4

Maximum Soil Parameter Concentrations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Parameters	Units	MECP Table 7 Residential	MECP Table 7 Industrial/ Commercial	Maximum Soil Concentration	Sample Identification	Sample Depth (mBGS)
Volatile Organic Compounds						
Benzene	ug/g	0.21	0.32	ND(0.0068)	ALL	0.3
Ethylbenzene	ug/g	2	9.5	ND(0.018)	ALL	0.3
Toluene	ug/g	2.3	68	ND(0.080)	ALL	0.3
Xylenes (Total)	ug/g	3.1	26	ND(0.05)	ALL	0.3
Petroleum Hydrocarbons Fractions						
PHC F1 (C6-C10)	ug/g	55	55	ND(5.0)	ALL	0.3
PHC F2 (C10-C16)	ug/g	98	230	ND(10.0)	ALL	0.3
PHC F3 (C16-C34)	ug/g	300	1700	ND(50.0)	ALL	0.3
PHC F4 (C34-C50)	ug/g	2800	3300	ND(50.0)	ALL	0.3

Notes:
mBGS - metres below ground surface
µg/g - microgram per gram
ND (0.020) - Not detected at the associated method detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (coarse textured soil).

Table 5

Summary of Groundwater Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH10-22	BH02-22	BH12-22	BH17-22	BH14-22	BH11-22
Sample ID:			GW-12566614-051722-NG-001	GW-12566614-051722-NG-002	GW-12566614-051722-NG-003	GW-12566614-051722-NG-004	GW-12566614-052522-NG-005	GW-12566614-052622-NG-006	GW-12566614-052622-NG-007	GW-12566614-052622-NG-008
Sample Date:			5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/25/2022	5/26/2022	5/25/2022	5/26/2022
Sample Type:			Original	Original	Original	Duplicate	Original	Original	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**								
Physical Tests										
Conductivity	mS/cm	--	2.3	3.42	--	3.39	2.9	7.76	--	--
pH	-	--	8.11	7.76	--	7.75	7.54	7.84	--	--
Anions and Nutrients										
Chloride	ug/L	1800000	620000	896000	--	858000	749000	**2820000**	--	--
Cyanides										
Cyanide	ug/L	52	<2.0	<2.0	--	<2.0	<2.0	<2.0	--	<2.0
Dissolved Metals										
Antimony	ug/L	16000	<1.00	<1.00	--	<1.00	<1.00	<1.00	--	<1.00
Arsenic	ug/L	1500	<1.00	<1.00	--	<1.00	<1.00	<1.00	--	<1.00
Barium	ug/L	23000	244	216	--	209	129	573	--	473
Beryllium	ug/L	53	<0.200	<0.200	--	<0.200	<0.200	<0.200	--	<0.200
Boron	ug/L	36000	<100	<100	--	<100	<100	<100	--	<100
Cadmium	ug/L	2.1	<0.0500	<0.0500	--	<0.0500	<0.0500	0.0799	--	<0.0500
Chromium	ug/L	640	<5.00	<5.00	--	<5.00	<5.00	<5.00	--	<5.00
Cobalt	ug/L	52	<1.00	<1.00	--	<1.00	1.46	1.23	--	2.78
Copper	ug/L	69	<2.00	<2.00	--	<2.00	<2.00	3.75	--	<2.00
Lead	ug/L	20	<0.500	<0.500	--	<0.500	<0.500	<0.500	--	<0.500
Mercury	ug/L	0.1	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	--	<0.0050
Molybdenum	ug/L	7300	2.39	1.47	--	1.49	7.98	6.93	--	17.4
Nickel	ug/L	390	<5.00	<5.00	--	<5.00	5.87	<5.00	--	9.96
Selenium	ug/L	50	<0.500	<0.500	--	<0.500	0.914	0.745	--	0.701
Silver	ug/L	1.2	<0.100	<0.100	--	<0.100	<0.100	<0.100	--	<0.100
Sodium	ug/L	1800000	236000	405000	--	415000	336000	1570000	--	381000
Thallium	ug/L	400	<0.100	<0.100	--	<0.100	<0.100	<0.100	--	<0.100
Uranium	ug/L	330	4.53	2.18	--	2.2	10.4	10.3	--	5.51
Vanadium	ug/L	200	<5.00	<5.00	--	<5.00	<5.00	<5.00	--	<5.00
Zinc	ug/L	890	<10.0	<10.0	--	<10.0	<10.0	<10.0	--	<10.0
Hexavalent Chromium	ug/L	110	<0.50	<0.50	--	<0.50	<0.50	<0.50	--	<0.50
Volatile Organic Compounds										
Acetone	ug/L	100000	<20	<20	--	<20	<20	<20	<20	<20
Benzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	ug/L	67000	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	ug/L	5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	ug/L	0.89	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	140	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	ug/L	2	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	ug/L	65000	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.2	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	ug/L	150	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	7600	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	3500	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	11	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50

Table 5

Summary of Groundwater Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH10-22	BH02-22	BH12-22	BH17-22	BH14-22	BH11-22
Sample ID:			GW-12566614-051722-NG-001	GW-12566614-051722-NG-002	GW-12566614-051722-NG-003	GW-12566614-051722-NG-004	GW-12566614-052522-NG-005	GW-12566614-052622-NG-006	GW-12566614-052622-NG-007	GW-12566614-052622-NG-008
Sample Date:			5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/25/2022	5/26/2022	5/25/2022	5/26/2022
Sample Type:			Original	Original	Original	Duplicate	Original	Original	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**								
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	ug/L	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	0.58	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
cis+trans-1,3-Dichloropropylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	--	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	--	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	ug/L	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexane (n)	ug/L	5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone [MEK]	ug/L	21000	<20	<20	--	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone [MIBK]	ug/L	5200	<20	<20	--	<20	<20	<20	<20	<20
Methyl-Tert-Butyl Ether [MTBE]	ug/L	15	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	ug/L	43	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	ug/L	320	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	23	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	2000	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
m+p-Xylene	ug/L	--	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Total Xylenes	ug/L	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hydrocarbons										
F1 (C6-C10)	ug/L	420	<25	<25	<25	<25	<25	<25	--	<25
F1-BTEX	ug/L	420	<25	<25	<25	<25	<25	<25	--	--
F2 (C10-C16)	ug/L	150	<100	<100	<100	<100	<100	<100	--	--
F2-naphthalene	ug/L	--	<100	<100	--	<100	--	--	--	--
F3 (C16-C34)	ug/L	500	<250	<250	280	<250	<250	<250	--	--
F3-PAH	ug/L	--	<250	<250	--	<250	--	--	--	--
F4 (C34-C50)	ug/L	500	<250	<250	<250	<250	<250	<250	--	--
Total Hydrocarbons (C6-C50)	ug/L	--	<370	<370	<370	<370	<370	<370	--	--
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	ug/L	17	<0.010	<0.010	--	<0.010	0.013	0.045	--	--
Acenaphthylene	ug/L	1	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Anthracene	ug/L	1	<0.010	<0.010	--	<0.010	0.04	0.018	--	--
Benz(a)anthracene	ug/L	1.8	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Benzo(a)pyrene	ug/L	0.81	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	--	--
Benzo(b+j)fluoranthene	ug/L	0.75	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Benzo(g,h,i)perylene	ug/L	0.2	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Benzo(k)fluoranthene	ug/L	0.4	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Chrysene	ug/L	0.7	0.016	<0.010	--	<0.010	0.012	<0.010	--	--
Dibenz(a,h)anthracene	ug/L	0.4	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	--	--
Fluoranthene	ug/L	44	0.034	<0.010	--	<0.010	0.117	0.048	--	--
Fluorene	ug/L	290	<0.010	<0.010	--	<0.010	0.043	0.074	--	--
Indeno(1,2,3-c,d)pyrene	ug/L	0.2	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
1+2-Methylnaphthalene	ug/L	1500	0.015	<0.015	--	<0.015	0.064	0.224	--	--
1-Methylnaphthalene	ug/L	1500	<0.010	<0.010	--	<0.010	0.024	0.144	--	--
2-Methylnaphthalene	ug/L	1500	0.015	<0.010	--	<0.010	0.04	0.08	--	--

Table 5

Summary of Groundwater Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:			**BH01-22**	**BH02-22**	**BH10-22**	**BH02-22**	**BH12-22**	**BH17-22**	**BH14-22**	**BH11-22**
Sample ID:			**GW-12566614-051722-NG-001**	**GW-12566614-051722-NG-002**	**GW-12566614-051722-NG-003**	**GW-12566614-051722-NG-004**	**GW-12566614-052522-NG-005**	**GW-12566614-052622-NG-006**	**GW-12566614-052622-NG-007**	**GW-12566614-052622-NG-008**
Sample Date:			**5/17/2022**	**5/17/2022**	**5/17/2022**	**5/17/2022**	**5/25/2022**	**5/26/2022**	**5/25/2022**	**5/26/2022**
Sample Type:			**Original**	**Original**	**Original**	**Duplicate**	**Original**	**Original**	**Original**	**Original**
Stratigraphy			**Overburden**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**
Parameters	**Units**	**MECP Table 7 All Property Types**								
Naphthalene	ug/L	7	<0.050	<0.050	--	<0.050	<0.050	<0.050	--	--
Phenanthrene	ug/L	380	<0.020	<0.020	--	<0.020	0.486	0.638	--	--
Pyrene	ug/L	5.7	0.019	<0.010	--	<0.010	0.108	0.1	--	--

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Table 6

Maximum Groundwater Parameter Concentrations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

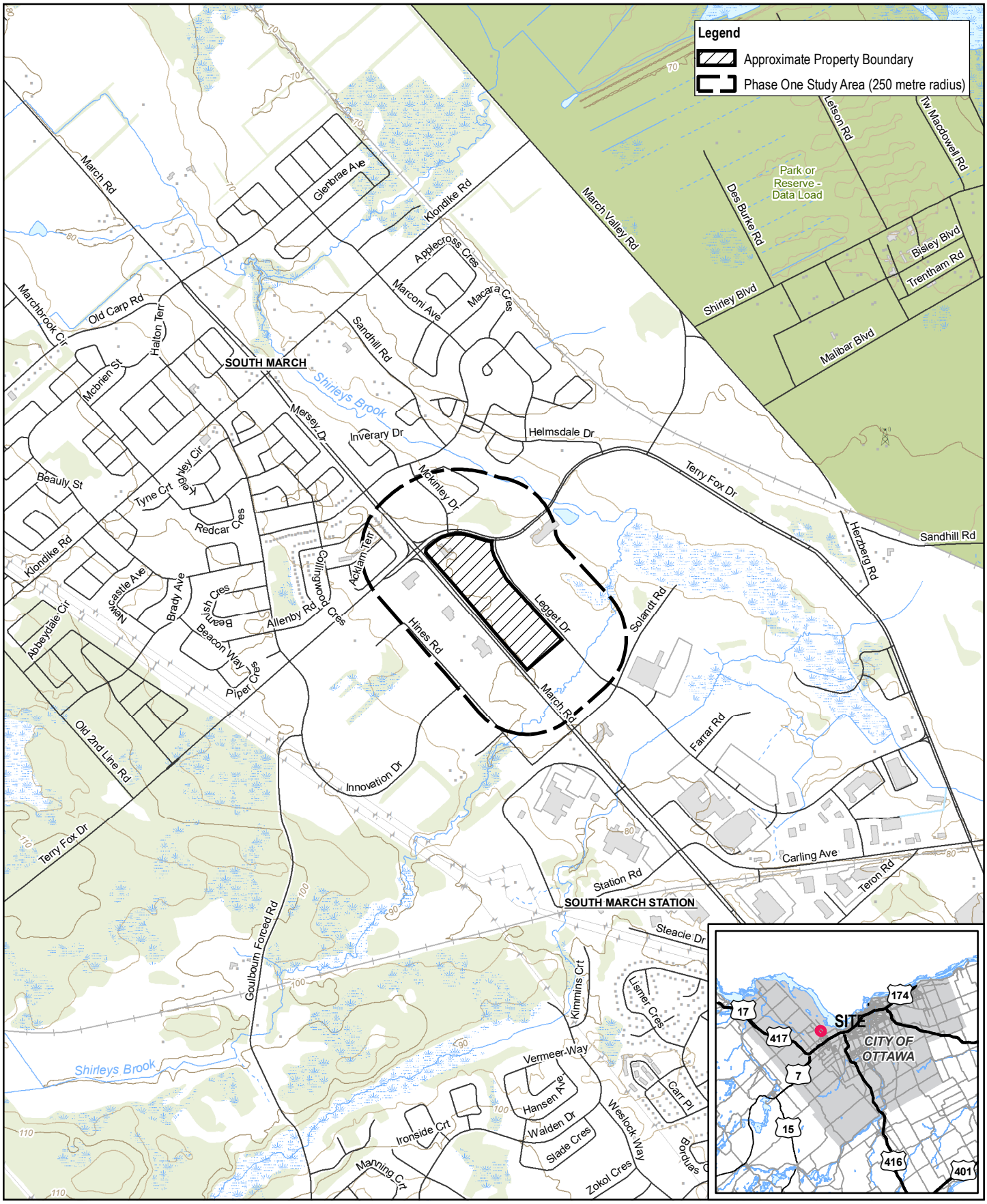
Parameters	Units	MECP Table 7 All Property Types	Maximum GW Concentration	Sample Identification
Physical Tests				
Conductivity	mS/cm	--	7.76	BH17-22
pH	-	--	8.11	BH01-22
Anions and Nutrients				
Chloride	ug/L	1800000	**2820000**	BH17-22
Cyanides				
Cyanide	ug/L	52	<2.0	ALL
Dissolved Metals				
Antimony	ug/L	16000	ND(1.0)	ALL
Arsenic	ug/L	1500	ND(1.0)	ALL
Barium	ug/L	23000	573	BH17-22
Beryllium	ug/L	53	ND(0.200)	ALL
Boron	ug/L	36000	ND(100)	ALL
Cadmium	ug/L	2.1	0.799	BH17-22
Chromium	ug/L	640	ND(5.0)	ALL
Cobalt	ug/L	52	2.78	BH11-22
Copper	ug/L	69	3.75	BH17-22
Lead	ug/L	20	ND(0.500)	ALL
Mercury	ug/L	0.1	ND(0.0050)	ALL
Molybdenum	ug/L	7300	17.4	BH11-22
Nickel	ug/L	390	9.96	BH11-22
Selenium	ug/L	50	0.914	BH12-22
Silver	ug/L	1.2	ND(0.100)	ALL
Sodium	ug/L	1800000	1570000	BH17-22
Thallium	ug/L	400	ND(0.100)	ALL
Uranium	ug/L	330	10.4	BH12-22
Vanadium	ug/L	200	ND(5.0)	ALL
Zinc	ug/L	890	ND(10.0)	ALL
Hexavalent Chromium	ug/L	110	ND(0.50)	ALL
Volatile Organic Compounds				
Acetone	ug/L	100000	ND(0.20)	ALL
Benzene	ug/L	0.5	ND(0.50)	ALL
Bromodichloromethane	ug/L	67000	ND(0.50)	ALL
Bromoform	ug/L	5	ND(0.50)	ALL
Bromomethane	ug/L	0.89	ND(0.50)	ALL
Carbon Tetrachloride	ug/L	0.2	ND(0.20)	ALL
Chlorobenzene	ug/L	140	ND(0.50)	ALL
Chloroform	ug/L	2	ND(0.50)	ALL
Dibromochloromethane	ug/L	65000	ND(0.50)	ALL
1,2-Dibromoethane	ug/L	0.2	ND(0.20)	ALL
1,2-Dichlorobenzene	ug/L	150	ND(0.50)	ALL
1,3-Dichlorobenzene	ug/L	7600	ND(0.50)	ALL
1,4-Dichlorobenzene	ug/L	0.5	ND(0.50)	ALL
Dichlorodifluoromethane	ug/L	3500	ND(0.50)	ALL
1,1-Dichloroethane	ug/L	11	ND(0.50)	ALL
1,2-Dichloroethane	ug/L	0.5	ND(0.50)	ALL
1,1-Dichloroethylene	ug/L	0.5	ND(0.50)	ALL
cis-1,2-Dichloroethylene	ug/L	1.6	ND(0.50)	ALL
trans-1,2-Dichloroethylene	ug/L	1.6	ND(0.50)	ALL
Dichloromethane	ug/L	--	ND(1.0)	ALL
1,2-Dichloropropane	ug/L	0.58	ND(0.50)	ALL
cis+trans-1,3-Dichloropropylene	ug/L	0.5	ND(0.50)	ALL
cis-1,3-Dichloropropylene	ug/L	--	ND(0.30)	ALL
trans-1,3-Dichloropropylene	ug/L	--	ND(0.30)	ALL
Ethylbenzene	ug/L	54	ND(0.50)	ALL

Maximum Groundwater Parameter Concentrations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Parameters	Units	MECP Table 7 All Property Types	Maximum GW Concentration	Sample Identification
Hexane (n)	ug/L	5	ND(0.50)	ALL
Methyl Ethyl Ketone [MEK]	ug/L	21000	ND(20)	ALL
Methyl Isobutyl Ketone [MIBK]	ug/L	5200	ND(20)	ALL
Methyl-Tert-Butyl Ether [MTBE]	ug/L	15	ND(0.50)	ALL
Styrene	ug/L	43	ND(0.50)	ALL
1,1,1,2-Tetrachloroethane	ug/L	1.1	ND(0.50)	ALL
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND(0.50)	ALL
Tetrachloroethylene	ug/L	0.5	ND(0.50)	ALL
Toluene	ug/L	320	ND(0.50)	ALL
1,1,1-Trichloroethane	ug/L	23	ND(0.50)	ALL
1,1,2-Trichloroethane	ug/L	0.5	ND(0.50)	ALL
Trichloroethylene	ug/L	0.5	ND(0.50)	ALL
Trichlorofluoromethane	ug/L	2000	ND(0.50)	ALL
Vinyl Chloride	ug/L	0.5	ND(0.50)	ALL
m+p-Xylene	ug/L	--	ND(0.40)	ALL
o-Xylene	ug/L	--	ND(0.30)	ALL
Total Xylenes	ug/L	72	ND(0.50)	ALL
Total BTEX	ug/L		ND(1.0)	ALL
Hydrocarbons				
F1 (C6-C10)	ug/L	420	ND(25)	ALL
F1-BTEX	ug/L	420	ND(25)	ALL
F2 (C10-C16)	ug/L	150	ND(100)	ALL
F2-naphthalene	ug/L	--	ND(100)	ALL
F3 (C16-C34)	ug/L	500	280	BH10-22
F3-PAH	ug/L	--	ND(250)	ALL
F4 (C34-C50)	ug/L	500	ND(250)	ALL
Total Hydrocarbons (C6-C50)	ug/L	--	ND(370)	ALL
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	ug/L	17	0.045	BH17-22
Acenaphthylene	ug/L	1	ND(0.010)	ALL
Anthracene	ug/L	1	0.04	BH12-22
Benz(a)anthracene	ug/L	1.8	ND(0.010)	ALL
Benzo(a)pyrene	ug/L	0.81	ND(0.0050)	ALL
Benzo(b+j)fluoranthene	ug/L	0.75	ND(0.010)	ALL
Benzo(g,h,i)perylene	ug/L	0.2	ND(0.010)	ALL
Benzo(k)fluoranthene	ug/L	0.4	ND(0.010)	ALL
Chrysene	ug/L	0.7	0.016	BH01-22
Dibenz(a,h)anthracene	ug/L	0.4	ND(0.0050)	ALL
Fluoranthene	ug/L	44	0.117	BH12-22
Fluorene	ug/L	290	0.074	BH17-22
Indeno(1,2,3-c,d)pyrene	ug/L	0.2	ND(0.010)	ALL
1+2-Methylnaphthalene	ug/L	1500	0.224	BH17-22
1-Methylnaphthalene	ug/L	1500	0.144	BH17-22
2-Methylnaphthalene	ug/L	1500	0.08	BH17-22
Naphthalene	ug/L	7	ND(0.050)	ALL
Phenanthrene	ug/L	380	0.638	BH17-22
Pyrene	ug/L	5.7	0.108	BH12-22

Notes:
µg/L - microgram per litre
ND (0.020) - Not detected at the associated method detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Figures



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

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NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

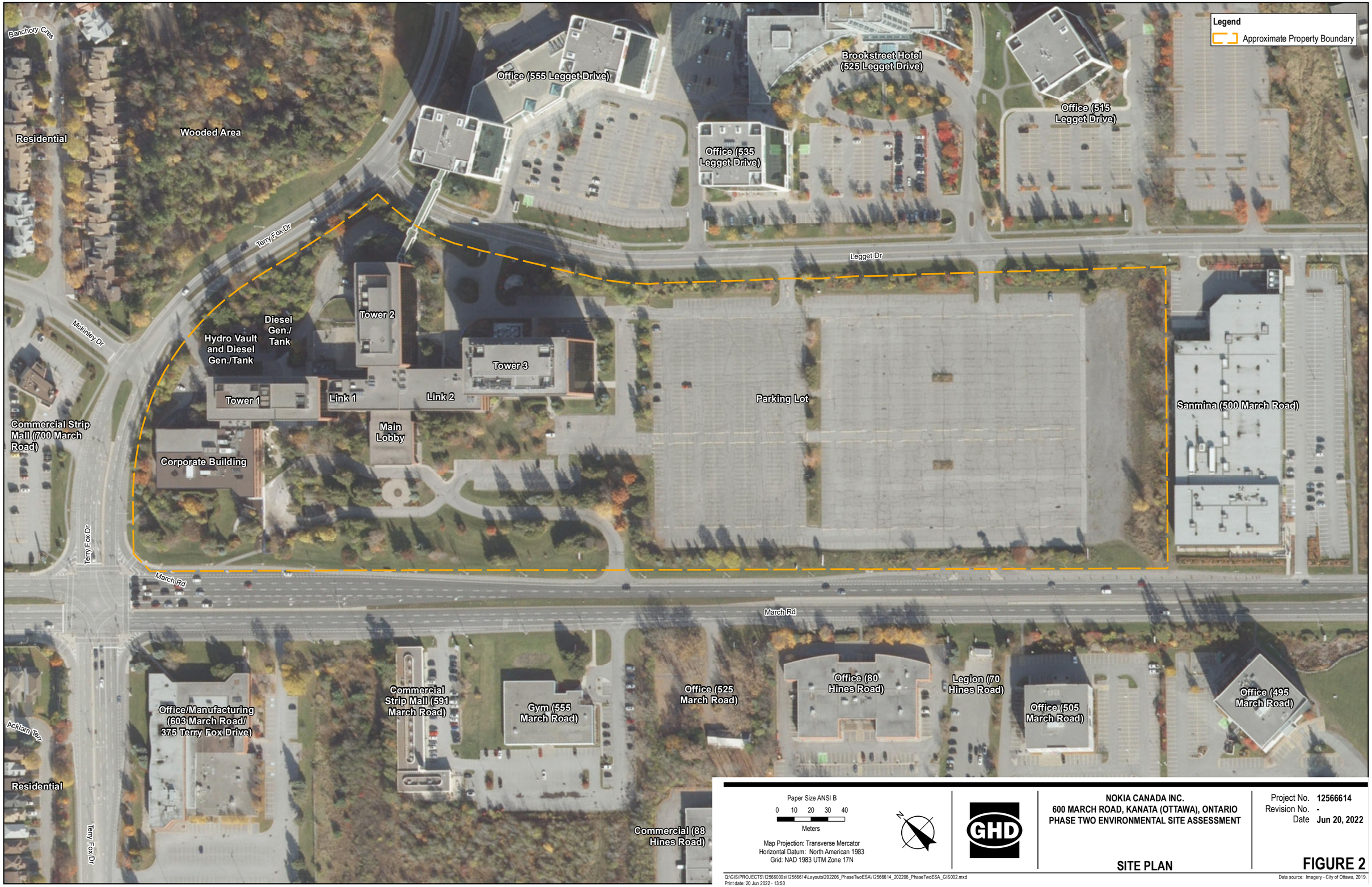
Project No. **12566614**
Revision No. **-**
Date **Jun 20, 2022**

SITE LOCATION MAP

FIGURE 1

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Print date: 20 Jun 2022 - 13:46

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry. © Queen's Printer 2022.



Paper Size ANSI B

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Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

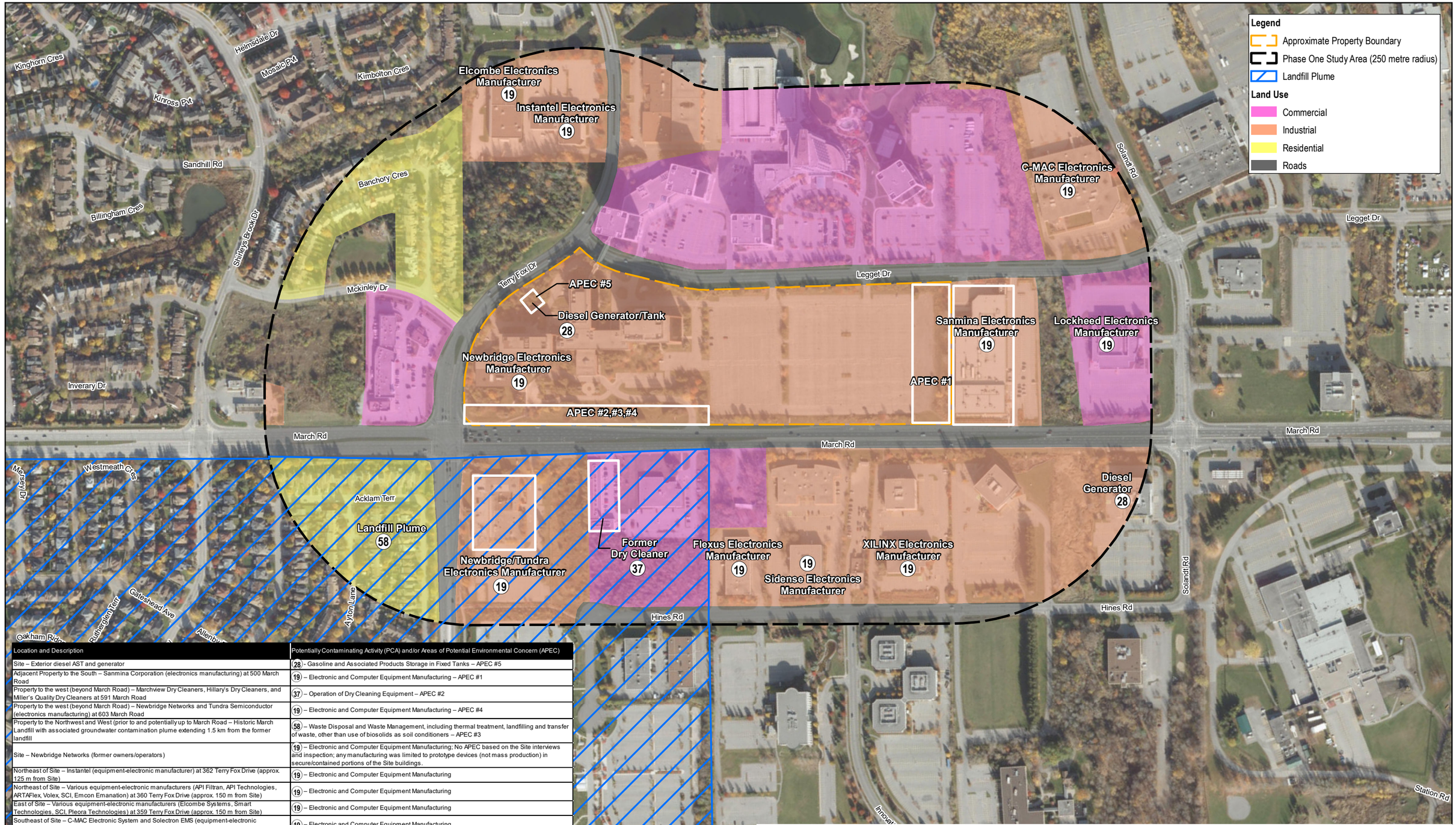
SITE PLAN

Project No. **12566614**
Revision No. **-**
Date **Jun 20, 2022**

FIGURE 2

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Data source: Imagery - City of Ottawa, 2019.



Location and Description	Potentially Contaminating Activity (PCA) and/or Areas of Potential Environmental Concern (APEC)
Site – Exterior diesel AST and generator	28 - Gasoline and Associated Products Storage in Fixed Tanks – APEC #5
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #1
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	37 – Operation of Dry Cleaning Equipment – APEC #2
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #4
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners – APEC #3
Site – Newbridge Networks (former owners/operators)	19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings.
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 125 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Northeast of Site – Various equipment-electronic manufacturers (API Filtran, API Technologies, ARTAFlex, Volex, SCI, Emcon Emanation) at 360 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks
North of the Site – Shell Gas Station at 720 March Road (approx. 225 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks

Paper Size ANSI B

0 30 60 90 120

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

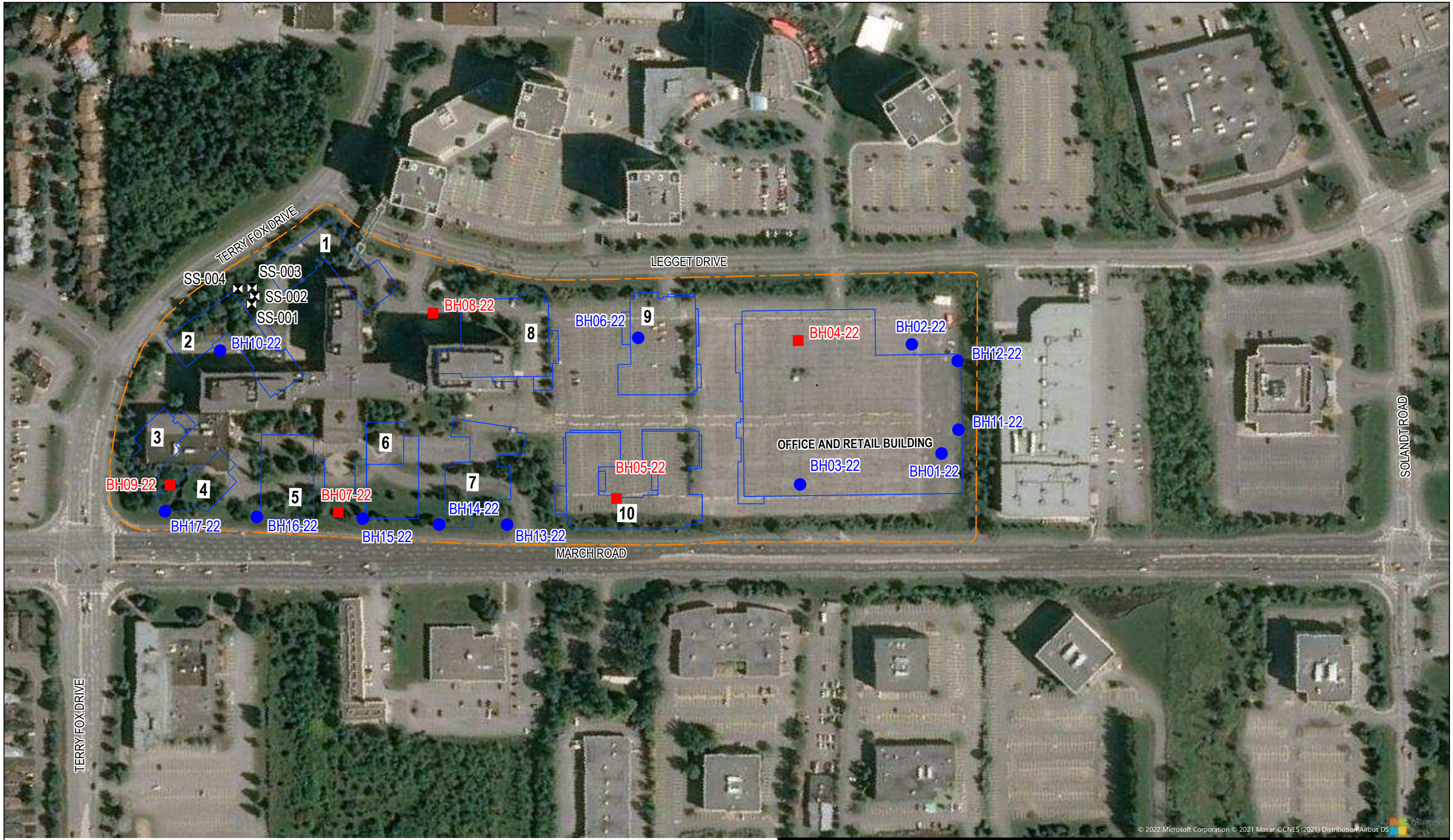
PHASE ONE CONCEPTUAL SITE MODEL

Project No. **12566614**
Revision No. **-**
Date **Jun 30, 2022**

FIGURE 3

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Data source: Imagery - City of Ottawa, 2019.



LEGEND

- PROPERTY BOUNDARY
- PROPOSED BUILDING OUTLINE
- BOREHOLE LOCATION
- MONITORING WELL
- SOIL SAMPLING LOCATION

1 BUILDING NUMBER

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum,
Zone 18, Meter;

GHD

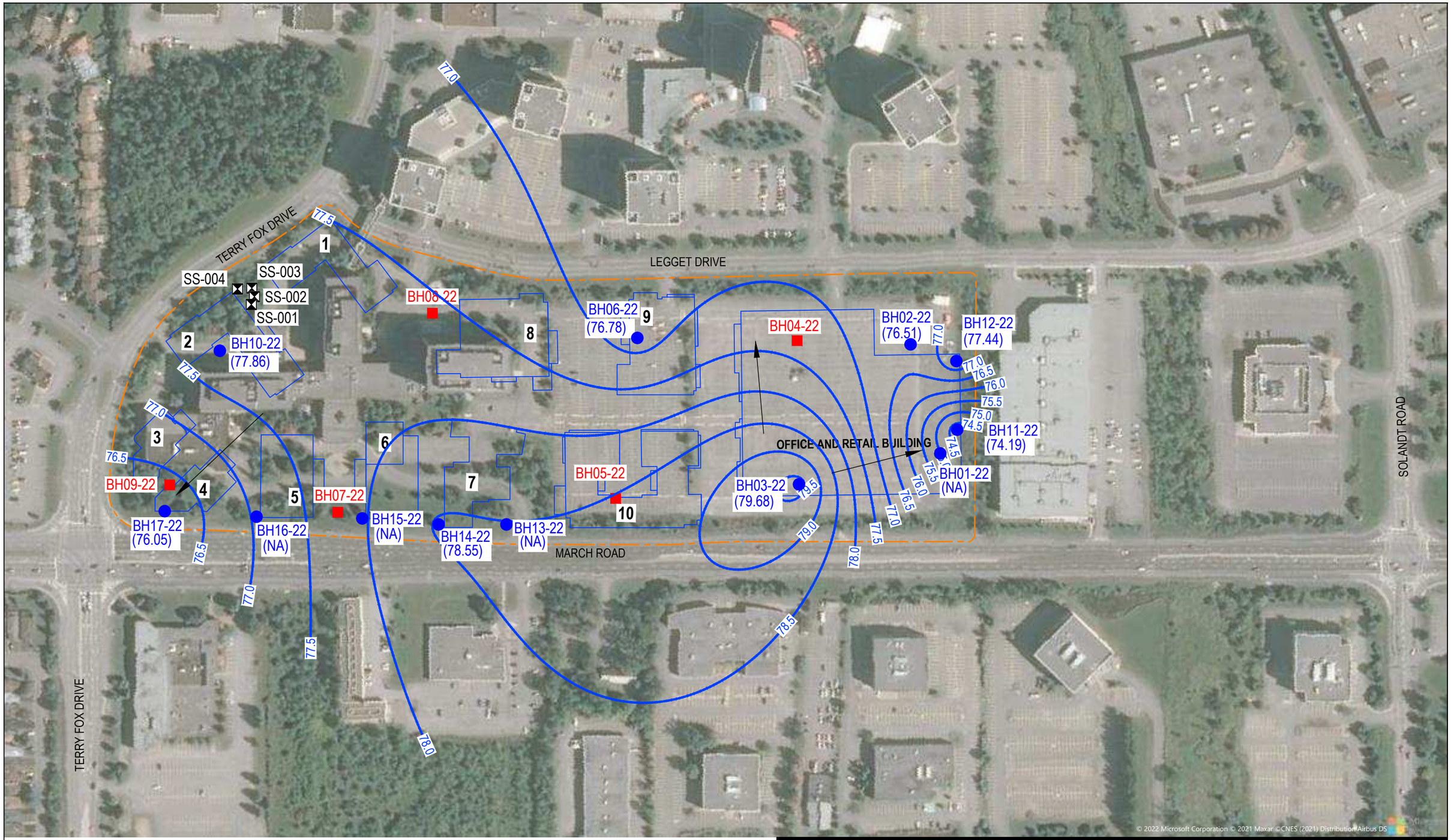
NOKIA CANADA INC.
600 MARCH ROAD, KANATA(OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

BOREHOLE LOCATION PLAN

Project No. **12566614**
Date **June 2022**

FIGURE 4

Filename: \\ghdnet\ghd\CA\Ottawa\Projects\661\12566614\Digital_Design\ACAD\Figures\RPT003\12566614-GHD-0000-RPT-EN-0102_OT-003.DWG
Plot Date: 30 June 2022 2:51 PM



LEGEND

- PROPERTY BOUNDARY
- PROPOSED BUILDING OUTLINE
- BOREHOLE LOCATION
- MONITORING WELL
- SOIL SAMPLING LOCATION
- 1 BUILDING NUMBER
- 79.5 GROUNDWATER POTENTIOMETRIC ELEVATION CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- (76.05) GROUNDWATER ELEVATION (mAMSL)
- (NA) NOT APPLICABLE

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum,
Zone 18, Meter;

GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA(OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

BEDROCK GROUNDWATER ELEVATIONS AND FLOW DIRECTION

Project No. **12566614**
Date **June 2022**

FIGURE 5

Filename: \\ghdnet\ghd\CA\Ottawa\Projects\661\12566614\Digital_Design\ACAD\Figures\RPT003\12566614-GHD-0000-RPT-EN-0101_OT-003.DWG
Plot Date: 30 June 2022 2:56 PM

Appendices

Appendix A

Borehole Logs

Notes on Borehole and Test Pit Reports

Soil description :

Each subsurface stratum is described using the following terminology. The relative density of granular soils is determined by the Standard Penetration Index ("N" value), while the consistency of clayey sols is measured by the value of undrained shear strength (Cu).

Classification (Unified system)

Clay	< 0.002 mm		
Silt	0.002 to 0.075 mm		
Sand	0.075 to 4.75 mm	fine	0.075 to 4.25 mm
		medium	0.425 to 2.0 mm
		coarse	2.0 to 4.75 mm
Gravel	4.75 to 75 mm	fine	4.75 to 19 mm
		coarse	19 to 75 mm
Cobbles	75 to 300 mm		
Boulders	>300 mm		

Terminology

"trace"	1-10%
"some"	10-20%
adjective (silty, sandy)	20-35%
"and"	35-50%

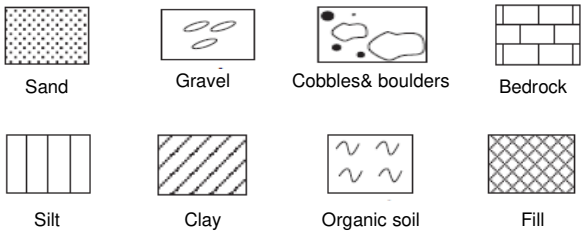
Relative density of granular soils	Standard penetration index "N" value (BLOWS/ft – 300 mm)
Very loose	0-4
Loose	4-10
Compact	10-30
Dense	30-50
Very dense	>50

Consistency of cohesive soils	Undrained shear strength (Cu) (P.S.F)	(kPa)
Very soft	<250	<12
Soft	250-500	12-25
Firm	500-1000	25-50
Stiff	1000-2000	50-100
Very stiff	2000-4000	100-200
Hard	>4000	>200

Rock quality designation

"RQD" (%) Value	Quality
<25	Very poor
25-50	Poor
50-75	Fair
75-90	Good
>90	Excellent

STRATIGRAPHIC LEGEND



Samples:

Type and Number

The type of sample recovered is shown on the log by the abbreviation listed hereafter. The numbering of samples is sequential for each type of sample.

SS: Split spoon
ST: Shelby tube
AG: Auger
SSE, GSE, AGE: Environmental sampling
PS: Piston sample (Osterberg)
RC: Rock core
GS: Grab sample

Recovery

The recovery, shown as a percentage, is the ratio of length of the sample obtained to the distance the sampler was driven/pushed into the soil

RQD

The "Rock Quality Designation" or "RQD" value, expressed as percentage, is the ratio of the total length of all core fragments of 4 inches (10 cm) or more to the total length of the run.

IN-SITU TESTS:

N: Standard penetration index
R: Refusal to penetration
N_c: Dynamic cone penetration index
Cu: Undrained shear strength
Pr: Pressure meter
k: Permeability
ABS: Absorption (Packer test)

LABORATORY TESTS:

I_p: Plasticity index
W_l: Liquid limit
Wp: Plastic limit
H: Hydrometer analysis
GSA: Grain size analysis
A: Atterberg limits
w: Water content
γ: Unit weight
C: Consolidation
CS: Swedish fall cone
CHEM: Chemical analysis
O.V.: Organic vapor

REFERENCE No.: 12566614

BOREHOLE REPORT

Page 1 of 1

BOREHOLE No.: BH01-22

ELEVATION: 80.2 m (GEODETIC)

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 28 January 2022 DATE (FINISH): 28 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021740.104 EASTING: 428002.481 ELEVATION: 80.2

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	
0				FILL - Gravelly silty SAND, some clay, greyish brown, moist, dense		GS1	29-37-22-12		--	13	--	--	Sand and Concrete; 0.3 m
1	0.5												
2	0.6	79.6		CLAY, greyish brown, moist, very stiff to stiff									Bentonite
3	1.0					SS1			100.0	36	2-4-5-5	9	
4													1.4 m
5	1.5			grey, moist to wet, stiff					--	--	--	--	Sand; 1.4
6	2.0												2.0 m
7													
8	2.5					SS2			100.0	54	2-2-2-2	4	
9													Screen
10	3.0								--	--	--	--	2.3
11													
12	3.5 3.6	76.6		END OF BOREHOLE (Auger Refusal)									3.6 m
13	4.0			NOTE: 1. Borehole dry upon completion of drilling. 2. Borehole dry on February 3, 2022.									
14													
15	4.5												
16													

△ Undisturbed Vane Value (kPa)
□ Remoulded Field Vane Value (kPa)
△³ Number refer to Sensitivity
○ Water content (%)
Atterberg limits (%) W_p W_l
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

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REFERENCE No.: 12566614

BOREHOLE No.: BH02-22

ELEVATION: 79.7 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 31 January 2022 DATE (FINISH): 1 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021805.708 EASTING: 428046.309 ELEVATION: 79.7

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
0	0.1	79.6		ASPHALT										Sand and Concrete 0.2 m
1				FILL - GRAVEL, some sand and silt, grey, moist, dense		GS1			--	--	--	--		
	0.5													
2	0.6	79.1		CLAY, some silt, trace sand and gravel, greyish brown, moist, stiff										
3	1.0					SS1	2-5-48-45		83.3	29	9-6-7-7	13	● ⊖	
4														
5	1.5								--	--	--	--	△	
6														
7	2.0													
8	2.4	77.3				SS2			0.0	--	50/102mm	50/102 mm		
	2.5			DOLOMITIC SANDSTONE, grey, slightly weathered, excellent to fair qullity										Bentonite
9						Run1			100	--	91	100		
10	3.0													
11				joint, perpendicular to core axis		Run2			100	--	68	89		
12	3.5													
13	4.0													2/3/2022 ▼
				joint, perpendicular to core axis		Run3			95	--	84	92		
14														
15	4.5													
16														4.9 m

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REFERENCE No.: 12566614

BOREHOLE No.: BH02-22

ELEVATION: 79.7 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 31 January 2022 DATE (FINISH): 1 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021805.708 EASTING: 428046.309 ELEVATION: 79.7

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%)	Moisture Content %	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	△ Undisturbed Vane Value (kPa) □ Remoulded Field Vane Value (kPa) △³ Number refer to Sensitivity ○ Water content (%) Atterberg limits (W_p W_l) ● "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE										
17														Sand
18	5.5													5.5 m
19						Run4			100	--	73	94		
20	6.0			joint, approximately 30 degrees to core axis										
21														
22	6.5													
23														Screen
24	7.0					Run5		122.5	100	--	63	98		
25														
26	7.5													
27	8.0					Run6			83	--	76	83		
28	8.5													8.5 m
	8.6	71.1		END OF BOREHOLE										8.6 m
29				NOTE: 1. Water level at a depth of 3.88 m (Elev. 75.84 m) below ground surface on February 3, 2022.										
30	9.0													
31	9.5													
32														

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REFERENCE No.: 12566614

BOREHOLE No.: BH03-22

ELEVATION: 80.7 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 28 January 2022 DATE (FINISH): 31 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021800.342 EASTING: 427921.429 ELEVATION: 80.7

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	
0				ASHPHALT									Sand and Concrete
	0.1	80.6		FILL - Sandy GRAVEL, some silt, trace clay, greyish brown, moist, dense		GS1	45-29-18-8		--	10	--	--	0.2 m
1													
	0.5												
2	0.6	80.1		Silty CLAY, some sand, trace gravel, greyish brown, moist, stiff									Bentonite
3													
	1.0					SS1	1-28-(71)		95.8	30	4-5-5-5	10	
4													1.2 m
	1.4	79.3		DOLOMITIC SANDSTONE, light grey with yellow bands, slightly weathered, excellent quality									Sand
5	1.5												1.5 m
													2/3/2022
6						Run1			100	--	100	100	
	2.0												
7													Screen
8	2.5					Run2		91.1	100	--	100	100	
9													
10	3.0	77.7		END OF BOREHOLE									3.0 m
				NOTE: 1. Water level at a depth of 1.55 m (Elev. 79.15 m) below ground surface on February 3, 2022.									
11													
	3.5												
12													
13	4.0												
14													
	4.5												
15													
16													

△ Undisturbed Vane Value (kPa)
□ Remoulded Field Vane Value (kPa)
△³ Number refer to Sensitivity
○ Water content (%)
Atterberg limits (%) W_p W_l
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

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REFERENCE No.: 12566614

BOREHOLE No.: BH04-22

ELEVATION: 79.8 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 28 January 2022 DATE (FINISH): 28 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021867.201 EASTING: 427996.294 ELEVATION: 79.8

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
0	0.1	79.7		ASPHALT										
1				FILL - Gravelly SAND, some silt and clay, grey, moist, dense		GS1	23-58-(19)		--	--	--	--		
	0.5													
2	0.6	79.2		Silty CLAY, some sand, greyish brown, moist, stiff										
3	1.0					SS1	0-10-44-46		77.0	29	5-6-7-7	13	● ○	
4														
5	1.5								--	--	--	--	△4.0 □	
	1.7	78.1		END OF BOREHOLE (Auger Refusal)										
6	2.0													
7														
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

BOREHOLE No.: BH05-22
ELEVATION: 81.1 m (GEODETIC)

CLIENT: Nokia
PROJECT: Geotechnical Investigation-Nokia Campus Rezoning
LOCATION: 570 and 600 March Road, Ottawa, Ontario
DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani
DATE (START): 1 February 2022 DATE (FINISH): 1 February 2022

LEGEND
- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021890.495 EASTING: 427830.004 ELEVATION: 81.1

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
0	0.1	81.0		ASPHALT										
1	0.5			FILL - Sandy SILT, some gravel, greyish brown, moist, dense		GS1			--	--	--	--		
2	0.6	80.5		CLAY, some silt and sand, trace gravel, greyish brown, moist, firm to stiff		SS1	1-15-50-34		100.0	23	13-50/76mm	50/76 mm		
3	0.9	80.2		END OF BOREHOLE (Auger Refusal)										
	1.0													
4														
5	1.5													
6														
7	2.0													
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

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BOREHOLE No.: BH06-22

ELEVATION: 79.6 m (GEODETIC)

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 2 February 2022 DATE (FINISH): 2 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021952.611 EASTING: 427924.443 ELEVATION: 79.6

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%)	Moisture Content %	Blows per 15cm/ RQD(%) %	'N' Value SCR(%) %	Undisturbed Vane Value (kPa); Remoulded Field Vane Value (kPa); Number refer to Sensitivity; Water content (%); Atterberg limits (%); "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE										
	0.1	79.5		ASPHALT										Sand and Concrete 0.2 m
1				FILL - Sandy SILT, some gravel, brown, moist, dense		GS1			--	--	--	--		
	0.4	79.2												
	0.5			DOLOMITIC SANDSTONE, light grey with yellow bands, fresh, good quality										
2														Bentonite
3	1.0													
4						Run1			97	--	87	97		
5	1.5													1.5 m
6														Sand
	2.0													
7														2.1 m
8	2.5													
9						Run2		94.2	90	--	75	90		Screen 2/3/2022
10	3.0													
11														
	3.5													
12	3.6	76.0		END OF BOREHOLE										3.6 m
				NOTE: 1. Water level at a depth of 2.86 m (Elev. 79.15 m) below ground surface on February 3, 2022.										
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

BOREHOLE No.: BH07-22
ELEVATION: 82.5 m (GEODETIC)

CLIENT: Nokia
PROJECT: Geotechnical Investigation-Nokia Campus Rezoning
LOCATION: 570 and 600 March Road, Ottawa, Ontario
DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani
DATE (START): 31 January 2022 DATE (FINISH): 31 January 2022

LEGEND
- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022030.466 EASTING: 427695.319 ELEVATION: 82.5

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel / Sand / Silt / Clay (%)	Unconfined Compressive Strength (MPa)	Recovery/ TCR(%)	Moisture Content (%)	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
1	0.5			TOPSOIL - Clayey SILT, contains rootlets and organic matter, dark brown, moist		GS1			--	--	--	--		
2	0.6	81.9		Silty CLAY to Clayey SILT, some sand and gravel, dark brown, moist, soft, organics matter		SS1			41.7	--	3-5-50/0	>50		
3	1.0	81.5		DOLOMITIC SANDSTONE, slightly weathered, light grey to grey with yellow bands, fair to good quality		Run1			100	--	66	100		
4														
5	1.5													
6														
7	2.0													
8	2.5					Run2			96	--	89	96		
9														
10	3.0													
11														
12	3.5					Run3		111.8	100	--	88	88		
13	4.0													
	4.1	78.4		END OF BOREHOLE										
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE No.: BH08-22

ELEVATION: 79.8 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 2 February 2022 DATE (FINISH): 2 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022071.843 EASTING: 427843.613 ELEVATION: 79.8

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%) %	Moisture Content %	Blows per 15cm/ RQD(%) %	'N' Value SCR(%) %	△ Undisturbed Vane Value (kPa) □ Remoulded Field Vane Value (kPa) △³ Number refer to Sensitivity ○ Water content (%) Atterberg limits (W_p W_l) ● "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
0	0.1	79.7		ASPHALT										
1	0.5			FILL - Sandy SILT, trace gravel, greyish brown, moist, dense		GS1			--	--	--	--		
2	0.6	79.2		END OF BOREHOLE (Auger Refusal)										
3	1.0													
4														
5	1.5													
6														
7	2.0													
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

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BOREHOLE No.: BH09-22

ELEVATION: 82.1 m (GEODETIC)

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 31 January 2022 DATE (FINISH): 31 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022131.544 EASTING: 427632.69 ELEVATION: 82.1

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel / Sand / Silt / Clay (%)	Unconfined Compressive Strength (MPa)	Recovery/ TCR(%)	Moisture Content (%)	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
1	0.5			TOPSOIL- SILT, trace sand and gravel, contains rootlets and organic matter, dark brown, moist		GS1			--	--	--	--		
2														
3	0.9	81.2				SS1			25.0	--	2-50/0mm	>50		
	1.0			END OF BOREHOLE (Auger Refusal)										
4														
5	1.5													
6														
7	2.0													
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\66\12566614\TECH\GINT LOGS\12566614 LOG.GPJ Library File: 12566614 GHD_GEOTECH_V10.GLB Report: 12566614 SOIL LOG Date: 24/3/22

REFERENCE No.: 12566614

BOREHOLE No.: BH10-22

ELEVATION: 80.4 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 2 February 2022 DATE (FINISH): 2 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022166.631 EASTING: 427726.321 ELEVATION: 80.4

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%) %	Moisture Content %	Blows per 15cm/ RQD(%) %	'N' Value SCR(%) %	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE									
	0.1	80.3		ASPHALT									Sand and Concrete 0.2 m
1				FILL - Sandy SILT, some gravel, brown, moist, dense		GS1			--	--	--	--	
	0.5												
2													
3	0.9	79.5				SS1			0.0	--	50/152mm	50/152 mm	
	1.0			DOLOMITIC SANDSTONE, slightly weathered, excellent to fair quality									Bentonite
4													
5	1.5			joint, perpendicular to core axis		Run1		113.3	100	--	81	100	
6													
	2.0												1.9 m
7													Sand
8	2.5												2.5 m
9						Run2			100	--	95	100	
10	3.0												2/3/2022
11													Screen
	3.5												
12						Run3			50	--	36	50	
13	4.0												
	4.1	76.3		END OF BOREHOLE									4.1 m
14				NOTE: 1. Water level at a depth of 3.00 m (Elev. 77.43 m) below ground surface on February 3, 2022.									
	4.5												
15													
16													

△ Undisturbed Vane Value (kPa)
□ Remoulded Field Vane Value (kPa)
△³ Number refer to Sensitivity
○ Water content (%)
Atterberg limits (%) W_p W_l
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\66\12566614\TECH\GINT LOGS\12566614 LOG.GPJ Library File: 12566614 GHD_GEOTECH_V10.GLB Report: 12566614 SOIL LOG Date: 24/3/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH11-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	80.21					
	TOP OF RISER	80.12					
0.5	TOPSOIL, silt with gravel, well graded, brown, trace organics		Sand				
	SILTY CLAY, well graded, dark brown, moist	79.60					
1.0							
1.5							
2.0							
	CLAY, well graded, dense, grey-brown, moist	78.07	Bentonite				
2.5							
3.0	- trace gravel from 3.05 to 3.66m BGS						
3.5							
	- sand from 3.81 to 4.57m BGS						
4.0							
4.5							
	TILL, gravel, trace clay, grey, very moist	75.64					
	BEDROCK	75.48					
5.0							
5.5							
6.0			Sand Pack				
			Well Screen				
6.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH11-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
7.5							
8.0	END OF BOREHOLE @ 7.92m BGS	72.28	WELL DETAILS Screened interval: 75.33 to 72.28mAMSL 4.88 to 7.92m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 75.94 to 72.28mAMSL 4.27 to 7.92m BGS Material: Silica				
8.5							
9.0							
9.5							
10.0							
10.5							
11.0							
11.5							
12.0							
12.5							
13.0							
13.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH12-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	79.60					
	TOP OF RISER	79.49					
0.5	TOPSOIL, silt, trace sand, trace gravel, loose, dark brown, organics		Sand				
		78.99					
1.0	SILTY CLAY, trace sand, well graded, dense, grey-brown, organics						
1.5							
2.0							
2.5			Bentonite				
3.0		76.55					
3.5	CLAYEY SAND, trace till and gravel, brown, moist						
		75.79					
4.0	TILL, trace silty clay, dense, grey, moist						
		75.18					
4.5	BEDROCK						
5.0							
5.5							
6.0			Sand Pack				
6.5			Well Screen				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH12-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
7.5							
8.0	END OF BOREHOLE @ 7.92m BGS	71.67	WELL DETAILS Screened interval: 74.72 to 71.67mAMSL 4.88 to 7.92m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 75.33 to 71.67mAMSL 4.27 to 7.92m BGS Material: Silica				
8.5							
9.0							
9.5							
10.0							
10.5							
11.0							
11.5							
12.0							
12.5							
13.0							
13.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH13-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE TOP OF RISER	81.95 81.83					
0.5	TOPSOIL, silty sand, poorly graded, trace gravel, brown, organics		Sand				
		81.34					
1.0	SANDY SILT, poorly graded, trace till and topsoil, dark brown, trace organics						
		80.58					
1.5	BEDROCK		Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack				
5.0			Well Screen				
5.5							
6.0							
6.5	END OF BOREHOLE @ 6.40m BGS Note: Borehole dry upon completion of drilling	75.55	WELL DETAILS Screened interval: 78.60 to 75.55mAMSL 3.35 to 6.40m BGS				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH13-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	
7.5			Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 79.21 to 75.55mAMSL 2.74 to 6.40m BGS Material: Silica					
8.0								
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH14-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	82.19					
	TOP OF RISER	82.12					
0.5	TOPSOIL, organics, very little recovery		Sand				
1.0	CLAYEY SILT, well graded, trace gravel, brown, organics	81.58					
1.5	BEDROCK, fractured rock	80.97	Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0		76.09					
	END OF BOREHOLE @ 6.10m BGS						
6.5							
7.0							
7.5							

WELL DETAILS
Screened interval:
79.14 to 76.09mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10
Material: PVC
Sand Pack:
79.45 to 76.09mAMSL
2.74 to 6.10m BGS
Material: Silica

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH15-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE TOP OF RISER	81.94 81.88					
0.5	TOPSOIL, well graded, brown, organics, very little recovery		Sand				
1.0	SANDY SILT, topsoil, well graded, trace clay, dark brown	81.33					
1.5	BEDROCK	80.72	Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0	END OF BOREHOLE @ 6.10m BGS Note: Borehole dry upon completion of drilling	75.84					
6.5							
7.0							
7.5							

WELL DETAILS
Screened interval:
78.89 to 75.84mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10
Material: PVC
Sand Pack:
79.20 to 75.84mAMSL
2.74 to 6.10m BGS
Material: Silica

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH16-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE TOP OF RISER	81.49 81.44					
0.5	TOPSOIL, trace sand, loose, brown, organics		Sand				
1.0	BEDROCK	80.57					
1.5			Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0	END OF BOREHOLE @ 6.10m BGS	75.39					
6.5	Note: Borehole dry upon completion of drilling						

WELL DETAILS
Screened interval:
78.44 to 75.39mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH16-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	
7.5			Material: PVC Sand Pack: 78.75 to 75.39mAMSL 2.74 to 6.10m BGS Material: Silica					
8.0								
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH17-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	81.48					
	TOP OF RISER	81.41					
0.5	TOPSOIL, silty, trace sand, trace gravel, loose, dark brown, organics		Sand				
1.0	TILL, trace sand, slight orange tint	80.63					
	BEDROCK	80.56					
1.5			Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0	END OF BOREHOLE @ 6.10m BGS	75.38					
6.5							

WELL DETAILS
Screened interval:
78.43 to 75.38mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH17-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	
7.5			Material: PVC Sand Pack: 78.74 to 75.38mAMSL 2.74 to 6.10m BGS Material: Silica					
8.0								
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

Appendix B

Laboratory Certificates of Analysis

GHD Limited (Waterloo)
ATTN: Pascal Renella
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Date Received: 28-APR-22
Report Date: 03-MAY-22 13:17 (MT)
Version: FINAL

Client Phone: 519-884-0510

Certificate of Analysis

Lab Work Order #: L2702132

Project P.O. #: NOT SUBMITTED
Job Reference: 12566614
C of C Numbers: 20-1009502
Legal Site Desc:

Rick Hawthorne
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2702132-1 S-12566614-042822-DA-001 Sampled By: CLIENT on 28-APR-22 @ 10:00 Matrix: SOIL							
Physical Tests							
% Moisture	34.4		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	97.1		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	102.1		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	89.4		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	82.5		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-2 S-12566614-042822-DA-002 Sampled By: CLIENT on 28-APR-22 @ 10:15 Matrix: SOIL							
Physical Tests							
% Moisture	26.5		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.19	DLQ	0.19	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.19		0.19	ug/g		03-MAY-22	
Surrogate: 4-Bromofluorobenzene	106.2		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	103.8		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		03-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		03-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2702132-2 S-12566614-042822-DA-002 Sampled By: CLIENT on 28-APR-22 @ 10:15 Matrix: SOIL							
Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	88.5		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	91.4		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-3 S-12566614-042822-DA-003 Sampled By: CLIENT on 28-APR-22 @ 10:30 Matrix: SOIL							
Physical Tests							
% Moisture	21.4		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	105.0		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	111.4		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	86.2		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	94.3		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-4 S-12566614-042822-DA-004 Sampled By: CLIENT on 28-APR-22 @ 10:40 Matrix: SOIL							
Physical Tests							
% Moisture	19.3		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	104.6		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	107.3		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2702132-4 S-12566614-042822-DA-004 Sampled By: CLIENT on 28-APR-22 @ 10:40 Matrix: SOIL							
Hydrocarbons							
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	89.5		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	79.0		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-5 S-12566614-042822-DA-005 Sampled By: CLIENT on 28-APR-22 @ 10:50 Matrix: SOIL							
Physical Tests							
% Moisture	28.4		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	101.4		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	104.5		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	86.6		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	81.8		60-140	%	02-MAY-22	03-MAY-22	R5770503

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)

Reference Information

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

20-1009502

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Pascal Renella

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	Soil							
Batch R5770503								
WG3722340-4 DUP		**WG3722340-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	03-MAY-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	03-MAY-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	03-MAY-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-MAY-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	03-MAY-22
WG3722340-2 LCS								
Benzene			100.0		%		70-130	02-MAY-22
Ethylbenzene			92.0		%		70-130	02-MAY-22
m+p-Xylenes			96.5		%		70-130	02-MAY-22
o-Xylene			93.1		%		70-130	02-MAY-22
Toluene			96.8		%		70-130	02-MAY-22
WG3722340-1 MB								
Benzene			<0.0068		ug/g		0.0068	02-MAY-22
Ethylbenzene			<0.018		ug/g		0.018	02-MAY-22
m+p-Xylenes			<0.030		ug/g		0.03	02-MAY-22
o-Xylene			<0.020		ug/g		0.02	02-MAY-22
Toluene			<0.080		ug/g		0.08	02-MAY-22
Surrogate: 1,4-Difluorobenzene			115.1		%		50-140	02-MAY-22
Surrogate: 4-Bromofluorobenzene			111.8		%		50-140	02-MAY-22
WG3722340-5 MS		**WG3722340-3**						
Benzene			109.4		%		60-140	03-MAY-22
Ethylbenzene			98.3		%		60-140	03-MAY-22
m+p-Xylenes			103.3		%		60-140	03-MAY-22
o-Xylene			100.3		%		60-140	03-MAY-22
Toluene			105.2		%		60-140	03-MAY-22
F1-HS-511-WT	Soil							
Batch R5770503								
WG3722340-4 DUP		**WG3722340-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	03-MAY-22
WG3722340-2 LCS								
F1 (C6-C10)			95.5		%		80-120	02-MAY-22
WG3722340-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	02-MAY-22
Surrogate: 3,4-Dichlorotoluene			101.7		%		60-140	02-MAY-22
WG3722340-5 MS		**WG3722340-3**						

Quality Control Report

Workorder: L2702132 Report Date: 03-MAY-22

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Pascal Renella

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	Soil							
Batch R5770503								
WG3722340-5 MS		**WG3722340-3**						
F1 (C6-C10)			99.8		%		60-140	03-MAY-22
F2-F4-511-WT	Soil							
Batch R5770400								
WG3722066-3 DUP		**WG3722066-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	02-MAY-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	02-MAY-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	02-MAY-22
WG3722066-2 LCS								
F2 (C10-C16)			98.0		%		70-130	02-MAY-22
F3 (C16-C34)			96.4		%		70-130	02-MAY-22
F4 (C34-C50)			104.5		%		70-130	02-MAY-22
WG3722066-1 MB								
F2 (C10-C16)			<10		ug/g		10	02-MAY-22
F3 (C16-C34)			<50		ug/g		50	02-MAY-22
F4 (C34-C50)			<50		ug/g		50	02-MAY-22
Surrogate: 2-Bromobenzotrifluoride			93.3		%		60-140	02-MAY-22
WG3722066-4 MS		**WG3722066-5**						
F2 (C10-C16)			96.2		%		60-140	02-MAY-22
F3 (C16-C34)			96.5		%		60-140	02-MAY-22
F4 (C34-C50)			105.6		%		60-140	02-MAY-22
MOISTURE-WT	Soil							
Batch R5770108								
WG3722197-4 DUP		**L2702449-22**						
% Moisture		19.8	20.6		%	4.1	20	01-MAY-22
WG3722197-2 LCS								
% Moisture			100.4		%		90-110	01-MAY-22
WG3722197-1 MB								
% Moisture			<0.25		%		0.25	01-MAY-22

Quality Control Report

Workorder: L2702132 Report Date: 03-MAY-22

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Pascal Renella

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

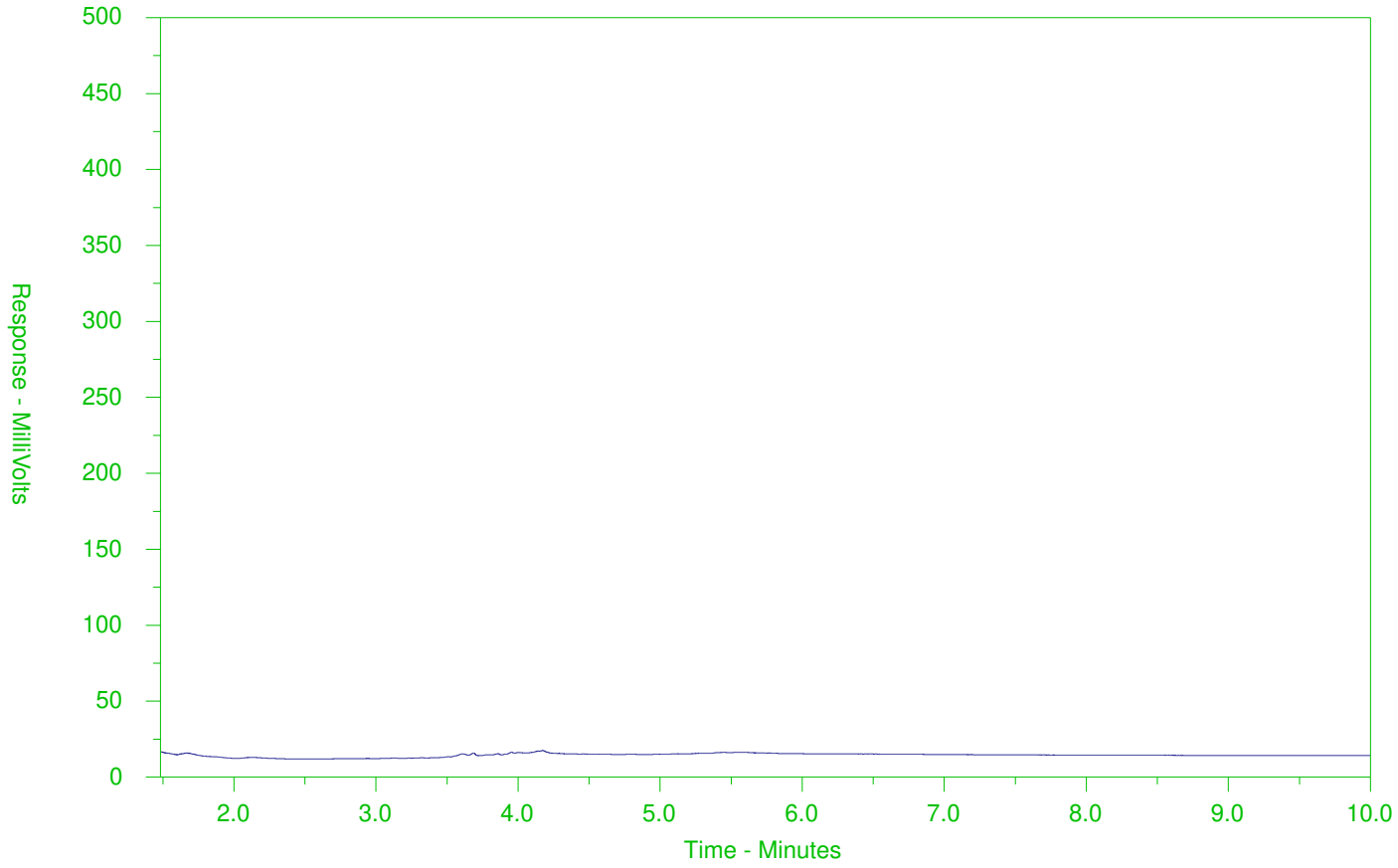
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-1
Client Sample ID: S-12566614-042822-DA-001



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

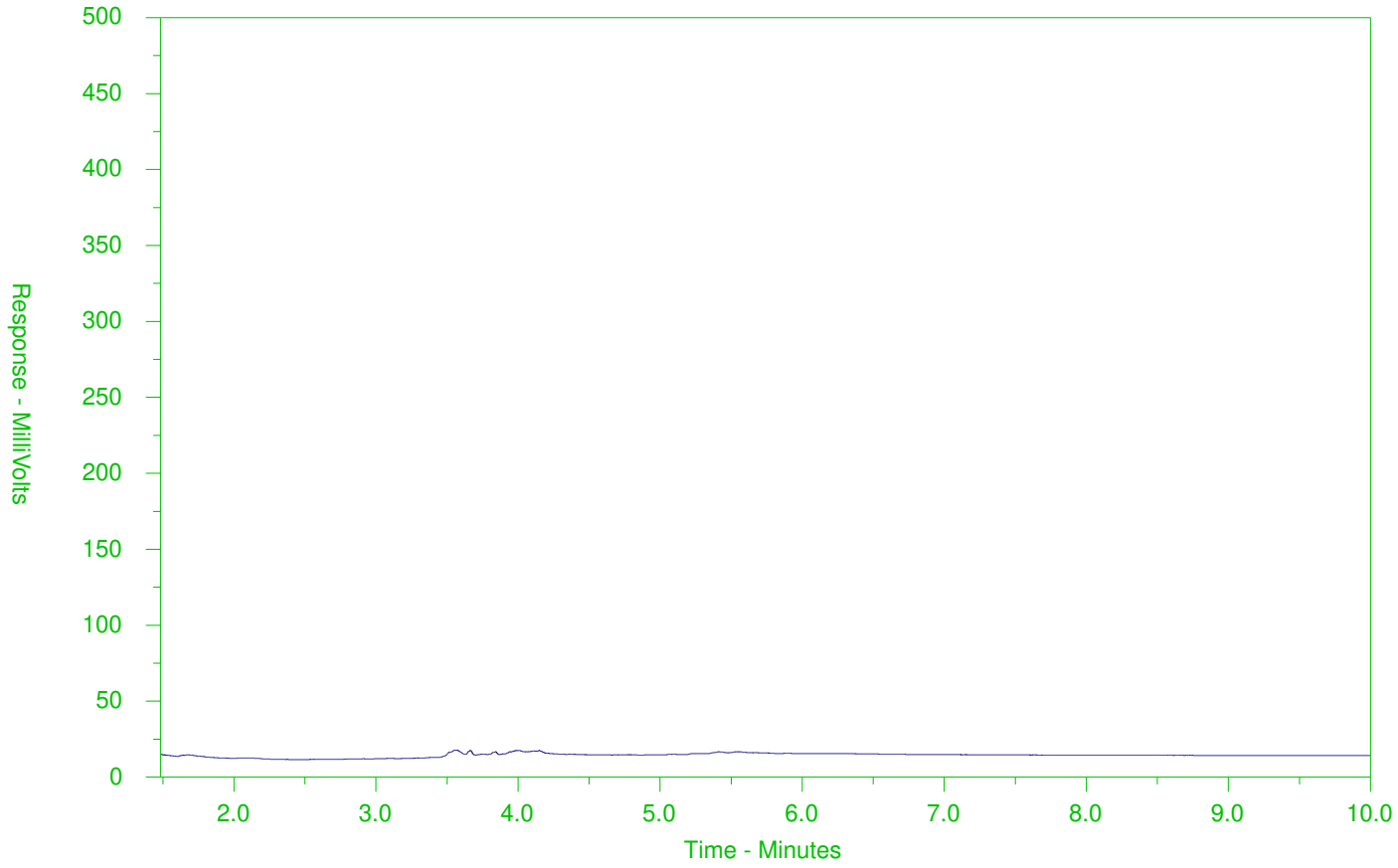
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-2
Client Sample ID: S-12566614-042822-DA-002



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

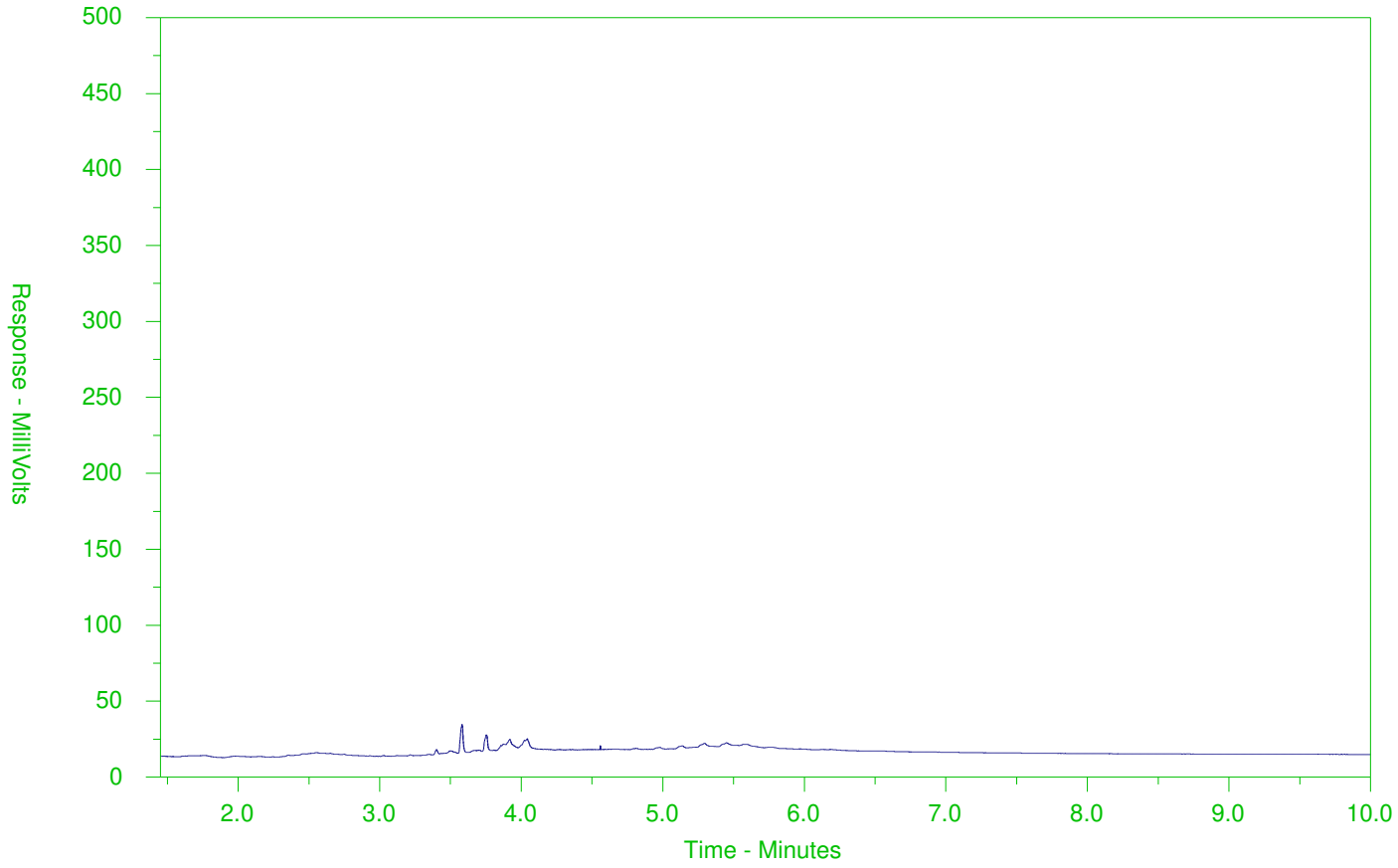
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-3
Client Sample ID: S-12566614-042822-DA-003



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

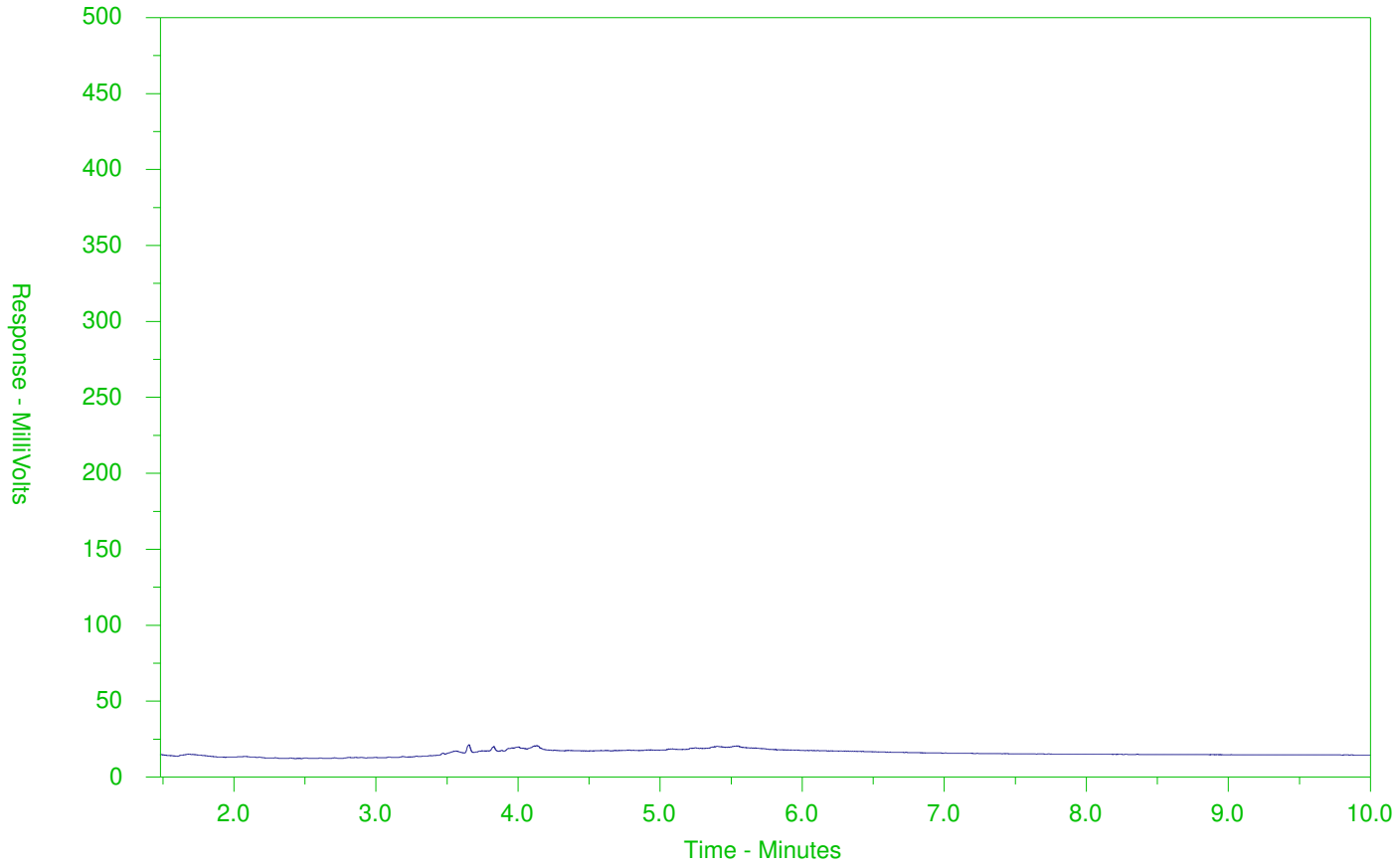
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-4
Client Sample ID: S-12566614-042822-DA-004



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

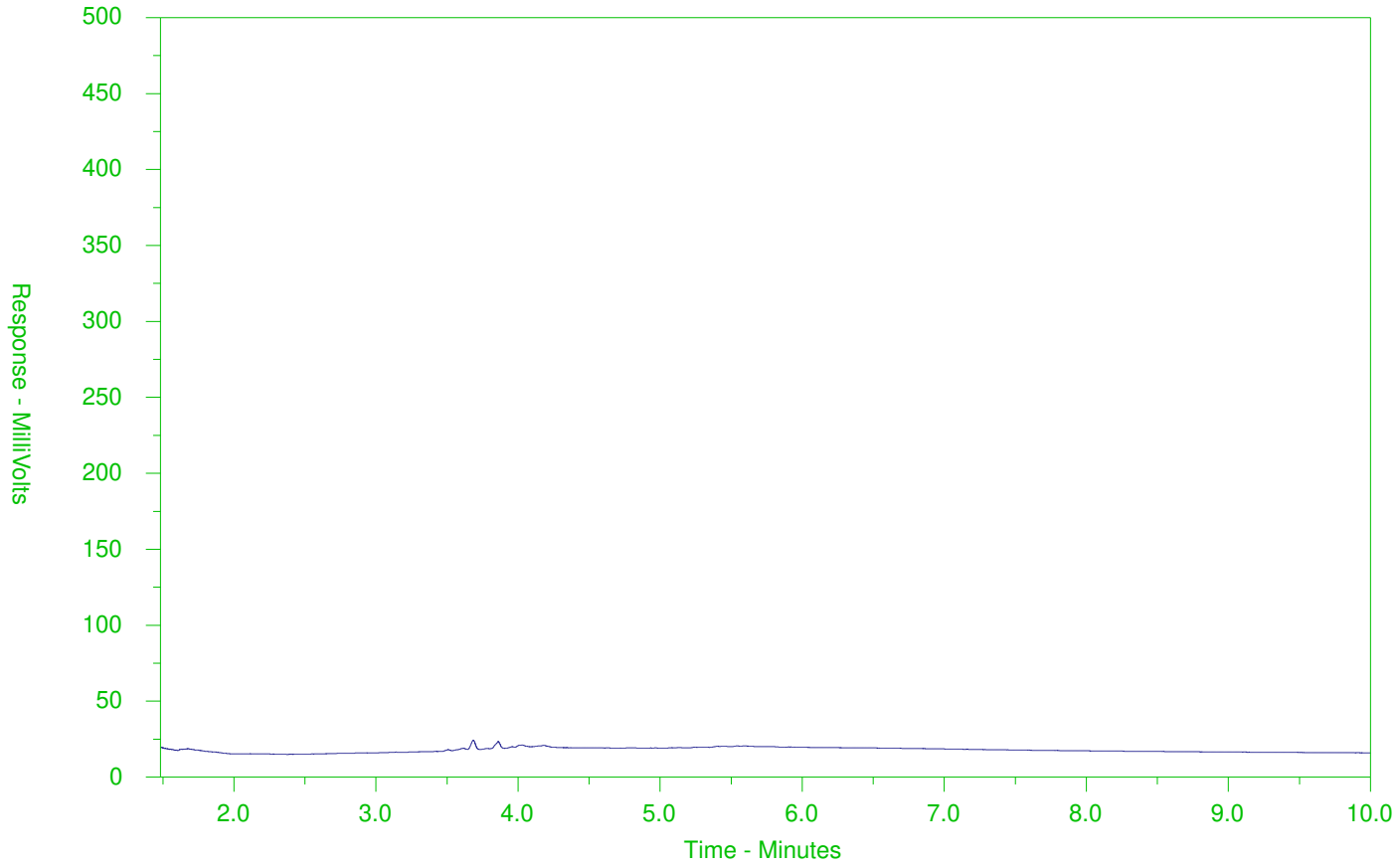
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-5
Client Sample ID: S-12566614-042822-DA-005



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

ALS www.als

L2702132-COFC

...in of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 1009502

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd.
Contact:	Joseph Drader
Phone:	tl+613-218-3463
Company address below will appear on the final report	
Street:	400-179 Colonnade Road
City/Province:	Ottawa, Ontario
Postal Code:	K2E 7J4
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☑ YES ☐ NO
Company:	GHD Ltd.
Contact:	Pascal Renella

Reports / Recipients	
Select Report Format:	☑ PDF ☐ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Joseph.Drader@ghd.com
Email 2	
Email 3	

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	pascal.renella@ghd.com
Email 2	

Turnaround Time (TAT) Requested
☐ Routine [R] if received by 3pm M-F - no surcharges apply
☑ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

See notes

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm or other

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#:
Job #:	1256614	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):	L2702132	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC F1-F4	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-1256614-042822-DA-001	28-04-22	10:00	Soil	3	X	X			
	S-1256614-042822-DA-002	28-04-22	10:15	Soil	3	X	X			
	S-1256614-042822-DA-003	28-04-22	10:30	Soil	3	X	X			
	S-1256614-042822-DA-004	28-04-22	10:40	Soil	3	X	X			
	S-1256614-004 DA									
	S-1256614-042822-DA-005	28-04-22	10:50	Soil	3	X	X			
	Tripblank-001	28-04-22	11:00	Soil	1	X	X			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	Results by May 4th, 2022
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
6.6				8.6			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Dathan Ash	Date: Apr. 28, 2022	Time:	Received by:	Date: 28APR22	Time: 1:10	Received by:	Date: 29-4-22	Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

CERTIFICATE OF ANALYSIS

Work Order	: **WT2204113**	Page	: 1 of 11
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 17-May-2022 15:45
PO	: 735-002942	Date Analysis Commenced	: 19-May-2022
C-O-C number	: ----	Issue Date	: 31-May-2022 13:10
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Organics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*

Analytical Results

WT2204113-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-001
Client sampling date / time: 17-May-2022 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	2.30	0.0010	mS/cm	E100	20-May-2022	21-May-2022	494874
pH	----	8.11	0.10	pH units	E108	20-May-2022	21-May-2022	494873
Anions and Nutrients								
chloride	16887-00-6	620 DLDS,	2.50	mg/L	E235.Cl	20-May-2022	24-May-2022	494894
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	19-May-2022	19-May-2022	493552
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
barium, dissolved	7440-39-3	244 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	20-May-2022	24-May-2022	495359
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	20-May-2022	24-May-2022	495359
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	20-May-2022	24-May-2022	495359
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	20-May-2022	24-May-2022	495359
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	20-May-2022	20-May-2022	494459
molybdenum, dissolved	7439-98-7	2.39 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
sodium, dissolved	7440-23-5	236000 DLHC,	500	µg/L	E421	20-May-2022	24-May-2022	495359
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
uranium, dissolved	7440-61-1	4.53 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	20-May-2022	24-May-2022	495359
dissolved mercury filtration location	----	Field	-	-	EP509	-	20-May-2022	494459
dissolved metals filtration location	----	Field	-	-	EP421	-	20-May-2022	495359
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	19-May-2022	493593
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
benzene	71-43-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387

Analytical Results

WT2204113-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-001
Client sampling date / time: 17-May-2022 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
styrene	100-42-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
toluene	108-88-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
BTEX, total	----	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	120	1.0	%	E611D	20-May-2022	20-May-2022	494387
difluorobenzene, 1,4-	540-36-3	95.7	1.0	%	E611D	20-May-2022	20-May-2022	494387
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494388
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	26-May-2022	494854
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	25-May-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	20-May-2022	26-May-2022	494854
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	25-May-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	26-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	24-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	24-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	26-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	85.5	1.0	%	E601.SG	20-May-2022	26-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	92.3	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494388
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856

Analytical Results

WT2204113-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-001

Client sampling date / time: 17-May-2022 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
chrysene	218-01-9	0.016	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
fluoranthene	206-44-0	0.034	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1+2-	----	0.015	0.015	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	20-May-2022	24-May-2022	494856
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	20-May-2022	24-May-2022	494856
pyrene	129-00-0	0.019	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	20-May-2022	24-May-2022	494856
naphthalene-d8	1146-65-2	102	0.1	%	E641A	20-May-2022	24-May-2022	494856
phenanthrene-d10	1517-22-2	106	0.1	%	E641A	20-May-2022	24-May-2022	494856

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204113-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	3.42	0.0010	mS/cm	E100	20-May-2022	21-May-2022	494874
pH	----	7.76	0.10	pH units	E108	20-May-2022	21-May-2022	494873
Anions and Nutrients								
chloride	16887-00-6	896 DLDS,	2.50	mg/L	E235.Cl	20-May-2022	24-May-2022	494894
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	19-May-2022	19-May-2022	493552
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
barium, dissolved	7440-39-3	216 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	20-May-2022	24-May-2022	495359
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	20-May-2022	24-May-2022	495359
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	20-May-2022	24-May-2022	495359
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	20-May-2022	24-May-2022	495359
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	20-May-2022	20-May-2022	494459

Analytical Results

WT2204113-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
molybdenum, dissolved	7439-98-7	1.47 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
sodium, dissolved	7440-23-5	405000 DLHC,	500	µg/L	E421	20-May-2022	24-May-2022	495359
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
uranium, dissolved	7440-61-1	2.18 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	20-May-2022	24-May-2022	495359
dissolved mercury filtration location	----	Field	-	-	EP509	-	20-May-2022	494459
dissolved metals filtration location	----	Field	-	-	EP421	-	20-May-2022	495359
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	19-May-2022	493593
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
benzene	71-43-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
styrene	100-42-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
toluene	108-88-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387

Analytical Results

WT2204113-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
BTEX, total	----	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	117	1.0	%	E611D	20-May-2022	20-May-2022	494387
difluorobenzene, 1,4-	540-36-3	96.3	1.0	%	E611D	20-May-2022	20-May-2022	494387
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494388
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	25-May-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	25-May-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	24-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	24-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	27-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	83.3	1.0	%	E601.SG	20-May-2022	27-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	89.3	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494388
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	20-May-2022	24-May-2022	494856
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	20-May-2022	24-May-2022	494856
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	20-May-2022	24-May-2022	494856
naphthalene-d8	1146-65-2	105	0.1	%	E641A	20-May-2022	24-May-2022	494856

Analytical Results

WT2204113-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons Surrogates								
phenanthrene-d10	1517-22-2	106	0.1	%	E641A	20-May-2022	24-May-2022	494856

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204113-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-003

Client sampling date / time: 17-May-2022 14:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
benzene	71-43-2	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
toluene	108-88-3	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A	20-May-2022	20-May-2022	494592
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A	20-May-2022	20-May-2022	494592
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
BTEX, total	----	<1.0	1.0	µg/L	E611A	20-May-2022	20-May-2022	494592
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	108	1.0	%	E611A	20-May-2022	20-May-2022	494592
difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611A	20-May-2022	20-May-2022	494592
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494591
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F3 (C16-C34)	----	280	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	21-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	21-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	27-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	83.4	1.0	%	E601.SG	20-May-2022	27-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	102	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494591

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204113-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	3.39	0.0010	mS/cm	E100	20-May-2022	21-May-2022	494874
pH	----	7.75	0.10	pH units	E108	20-May-2022	21-May-2022	494873
Anions and Nutrients								
chloride	16887-00-6	858 DLDS	2.50	mg/L	E235.Cl	20-May-2022	24-May-2022	494894

Analytical Results

WT2204113-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	19-May-2022	19-May-2022	493552
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
barium, dissolved	7440-39-3	209 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	20-May-2022	24-May-2022	495359
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	20-May-2022	24-May-2022	495359
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	20-May-2022	24-May-2022	495359
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	20-May-2022	24-May-2022	495359
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	20-May-2022	20-May-2022	494459
molybdenum, dissolved	7439-98-7	1.49 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
sodium, dissolved	7440-23-5	415000 DLHC,	500	µg/L	E421	20-May-2022	24-May-2022	495359
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
uranium, dissolved	7440-61-1	2.20 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	20-May-2022	24-May-2022	495359
dissolved mercury filtration location	----	Field	-	-	EP509	-	20-May-2022	494459
dissolved metals filtration location	----	Field	-	-	EP421	-	20-May-2022	495359
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	19-May-2022	493593
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
benzene	71-43-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387

Analytical Results

WT2204113-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
styrene	100-42-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
toluene	108-88-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
BTEX, total	----	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	119	1.0	%	E611D	20-May-2022	20-May-2022	494387
difluorobenzene, 1,4-	540-36-3	95.2	1.0	%	E611D	20-May-2022	20-May-2022	494387
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494388
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	25-May-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	25-May-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	24-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	24-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	27-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.4	1.0	%	E601.SG	20-May-2022	27-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	90.6	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494388
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856

Analytical Results

WT2204113-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	20-May-2022	24-May-2022	494856
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	20-May-2022	24-May-2022	494856
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	20-May-2022	24-May-2022	494856
naphthalene-d8	1146-65-2	104	0.1	%	E641A	20-May-2022	24-May-2022	494856
phenanthrene-d10	1517-22-2	105	0.1	%	E641A	20-May-2022	24-May-2022	494856

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2204113**	Page	: 1 of 11
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 17-May-2022 15:45
PO	: 735-002942	Issue Date	: 31-May-2022 13:11
C-O-C number	: ----		
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12566614-051722-NG-001	E235.Cl	17-May-2022	----	----	----		24-May-2022	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12566614-051722-NG-002	E235.Cl	17-May-2022	----	----	----		24-May-2022	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12566614-051722-NG-004	E235.Cl	17-May-2022	----	----	----		24-May-2022	28 days	7 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-051722-NG-001	E336	17-May-2022	----	----	----		19-May-2022	14 days	2 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-051722-NG-002	E336	17-May-2022	----	----	----		19-May-2022	14 days	2 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-051722-NG-004	E336	17-May-2022	----	----	----		19-May-2022	14 days	2 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12566614-051722-NG-001	E509	17-May-2022	20-May-2022	----	----		20-May-2022	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12566614-051722-NG-002	E509	17-May-2022	20-May-2022	----	----		20-May-2022	28 days	3 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12566614-051722-NG-004	E509	17-May-2022	20-May-2022	----	----		20-May-2022	28 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-051722-NG-001	E421	17-May-2022	20-May-2022	----	----		24-May-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-051722-NG-002	E421	17-May-2022	20-May-2022	----	----		24-May-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-051722-NG-004	E421	17-May-2022	20-May-2022	----	----		24-May-2022	180 days	7 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-001	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-002	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-003	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-004	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-001	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	26-May-2022	40 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-002	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	27-May-2022	40 days	7 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-003	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	27-May-2022	40 days	7 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-004	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	27-May-2022	40 days	7 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12566614-051722-NG-001	E100	17-May-2022	----	----	----		21-May-2022	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12566614-051722-NG-002	E100	17-May-2022	----	----	----		21-May-2022	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12566614-051722-NG-004	E100	17-May-2022	----	----	----		21-May-2022	28 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12566614-051722-NG-001	E108	17-May-2022	----	----	----		21-May-2022	4 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12566614-051722-NG-002	E108	17-May-2022	----	----	----		21-May-2022	4 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12566614-051722-NG-004	E108	17-May-2022	----	----	----		21-May-2022	4 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-051722-NG-001	E641A	17-May-2022	20-May-2022	14 days	3 days	✓	24-May-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-051722-NG-002	E641A	17-May-2022	20-May-2022	14 days	3 days	✓	24-May-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-051722-NG-004	E641A	17-May-2022	20-May-2022	14 days	3 days	✓	24-May-2022	40 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-051722-NG-001	E532A	17-May-2022	----	----	----		19-May-2022	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-051722-NG-002	E532A	17-May-2022	----	----	----		19-May-2022	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-051722-NG-004	E532A	17-May-2022	----	----	----		19-May-2022	28 days	2 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-003	E611A	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-001	E611D	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-002	E611D	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-004	E611D	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Conductivity in Water	E100	494874	1	10	10.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
pH by Meter	E108	494873	1	15	6.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Conductivity in Water	E100	494874	1	10	10.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	494856	1	3	33.3	5.0	✓
pH by Meter	E108	494873	1	15	6.6	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	494854	1	5	20.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Conductivity in Water	E100	494874	1	10	10.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	494856	1	3	33.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	494854	1	5	20.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
BTEX by Headspace GC-MS	E611A Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **WT2204113**	Page	: 1 of 16
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 17-May-2022 15:45
PO	: 735-002942	Date Analysis Commenced	: 19-May-2022
C-O-C number	: ----	Issue Date	: 31-May-2022 13:10
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 494873)											
WT2204109-005	Anonymous	pH	----	E108	0.10	pH units	8.19	8.14	0.05	Diff <2x LOR	----
Physical Tests (QC Lot: 494874)											
WT2204109-005	Anonymous	conductivity	----	E100	2.0	µS/cm	194	196	0.871%	10%	----
Anions and Nutrients (QC Lot: 494894)											
WT2204109-005	Anonymous	chloride	16887-00-6	E235.Cl	0.50	mg/L	7.92	7.96	0.436%	20%	----
Cyanides (QC Lot: 493552)											
WT2204113-001	GW-12566614-051722-NG-001	cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 494459)											
WT2204113-001	GW-12566614-051722-NG-001	mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 495359)											
WT2204009-001	Anonymous	antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		barium, dissolved	7440-39-3	E421	0.00100	mg/L	32.9 µg/L	0.0336	1.90%	20%	----
		beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		boron, dissolved	7440-42-8	E421	0.100	mg/L	355 µg/L	0.336	0.018	Diff <2x LOR	----
		cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	0.0649 µg/L	0.0000678	0.0000029	Diff <2x LOR	----
		chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	12.5 µg/L	0.0133	6.29%	20%	----
		nickel, dissolved	7440-02-0	E421	0.00500	mg/L	16.6 µg/L	0.0171	0.00057	Diff <2x LOR	----
		selenium, dissolved	7782-49-2	E421	0.000500	mg/L	1.03 µg/L	0.000992	0.000040	Diff <2x LOR	----
		silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		sodium, dissolved	7440-23-5	E421	0.500	mg/L	201000 µg/L	207	3.17%	20%	----
		thallium, dissolved	7440-28-0	E421	0.000100	mg/L	0.356 µg/L	0.000342	0.000013	Diff <2x LOR	----
		uranium, dissolved	7440-61-1	E421	0.000100	mg/L	10.2 µg/L	0.0103	0.733%	20%	----
		vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		zinc, dissolved	7440-66-6	E421	0.0100	mg/L	34.0 µg/L	0.0331	0.0010	Diff <2x LOR	----
Speciated Metals (QC Lot: 493593)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Speciated Metals (QC Lot: 493593) - continued											
CG2205921-008	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 494387)											
WT2204113-001	GW-12566614-051722-NG-001	acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 494387) - continued											
WT2204113-001	GW-12566614-051722-NG-001	trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 494592)											
WT2203988-001	Anonymous	benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611A	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 494388)											
WT2204113-001	GW-12566614-051722-NG-001	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 494591)											
WT2203988-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 494874)						
conductivity	----	E100	1	µS/cm	1.1	----
Anions and Nutrients (QCLot: 494894)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 493552)						
cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 494459)						
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 495359)						
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Speciated Metals (QCLot: 493593)						
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 494387)						
acetone	67-64-1	E611D	20	µg/L	<20	----
benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued						
bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued						
xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 494592)						
benzene	71-43-2	E611A	0.5	µg/L	<0.50	----
ethylbenzene	100-41-4	E611A	0.5	µg/L	<0.50	----
toluene	108-88-3	E611A	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611A	0.4	µg/L	<0.40	----
xylene, o-	95-47-6	E611A	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 494388)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 494591)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 494854)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 494856)						
acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 494873)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 494874)									
conductivity	----	E100	1	µS/cm	1409 µS/cm	98.6	90.0	110	----
Anions and Nutrients (QCLot: 494894)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	104	90.0	110	----
Cyanides (QCLot: 493552)									
cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	107	80.0	120	----
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	94.8	80.0	120	----
Dissolved Metals (QCLot: 495359)									
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	103	80.0	120	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	106	80.0	120	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	108	80.0	120	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	105	80.0	120	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	105	80.0	120	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	105	80.0	120	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	102	80.0	120	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	101	80.0	120	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	102	80.0	120	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	102	80.0	120	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	102	80.0	120	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	96.2	80.0	120	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	108	80.0	120	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	100	80.0	120	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	101	80.0	120	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	105	80.0	120	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	106	80.0	120	----
Speciated Metals (QCLot: 493593)									
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	98.8	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387)									
acetone	67-64-1	E611D	20	µg/L	100 µg/L	114	70.0	130	----
benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	94.4	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	117	70.0	130	----
bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	97.9	70.0	130	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	99.4	70.0	130	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	100.0	70.0	130	----
chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	95.6	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	101	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	99.7	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	102	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	88.1	70.0	130	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	98.4	70.0	130	----
hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	110	70.0	130	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	110	70.0	130	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	84.2	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	94.6	70.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	99.7	70.0	130	----
toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	91.9	70.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued									
vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	92.9	70.0	130	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	102	70.0	130	----
xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	96.6	70.0	130	----
Volatile Organic Compounds (QCLot: 494592)									
benzene	71-43-2	E611A	0.5	µg/L	100 µg/L	108	70.0	130	----
ethylbenzene	100-41-4	E611A	0.5	µg/L	100 µg/L	96.7	70.0	130	----
toluene	108-88-3	E611A	0.5	µg/L	100 µg/L	105	70.0	130	----
xylene, m+p-	179601-23-1	E611A	0.4	µg/L	200 µg/L	105	70.0	130	----
xylene, o-	95-47-6	E611A	0.3	µg/L	100 µg/L	99.8	70.0	130	----
Hydrocarbons (QCLot: 494388)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	104	80.0	120	----
Hydrocarbons (QCLot: 494591)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	91.3	80.0	120	----
Hydrocarbons (QCLot: 494854)									
F2 (C10-C16)	----	E601.SG	100	µg/L	5018 µg/L	104	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6312 µg/L	122	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	6087 µg/L	79.1	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 494856)									
acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	97.4	50.0	140	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	103	50.0	140	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	113	50.0	140	----
chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	107	50.0	140	----
fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	113	50.0	140	----
fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	97.7	50.0	140	----
naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	98.4	50.0	140	----
phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	112	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 494856) - continued									
pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 494894)										
WT2204109-005	Anonymous	chloride	16887-00-6	E235.Cl	103 mg/L	100 mg/L	103	75.0	125	----
Cyanides (QCLot: 493552)										
WT2204113-001	GW-12566614-051722-NG-001	cyanide, weak acid dissociable	----	E336	0.156 mg/L	0.125 mg/L	125	70.0	130	----
Dissolved Metals (QCLot: 494459)										
WT2204113-002	GW-12566614-051722-NG-002	mercury, dissolved	7439-97-6	E509	0.0000896 mg/L	0.0001 mg/L	89.6	70.0	130	----
Dissolved Metals (QCLot: 495359)										
WT2204009-002	Anonymous	antimony, dissolved	7440-36-0	E421	0.494 mg/L	0.5 mg/L	98.8	70.0	130	----
		arsenic, dissolved	7440-38-2	E421	0.502 mg/L	0.5 mg/L	100	70.0	130	----
		barium, dissolved	7440-39-3	E421	0.121 mg/L	0.125 mg/L	96.5	70.0	130	----
		beryllium, dissolved	7440-41-7	E421	0.0466 mg/L	0.05 mg/L	93.3	70.0	130	----
		boron, dissolved	7440-42-8	E421	0.459 mg/L	0.5 mg/L	91.7	70.0	130	----
		cadmium, dissolved	7440-43-9	E421	0.0486 mg/L	0.05 mg/L	97.3	70.0	130	----
		chromium, dissolved	7440-47-3	E421	0.123 mg/L	0.125 mg/L	98.6	70.0	130	----
		cobalt, dissolved	7440-48-4	E421	0.120 mg/L	0.125 mg/L	95.8	70.0	130	----
		copper, dissolved	7440-50-8	E421	0.114 mg/L	0.125 mg/L	91.1	70.0	130	----
		lead, dissolved	7439-92-1	E421	0.228 mg/L	0.25 mg/L	91.4	70.0	130	----
		molybdenum, dissolved	7439-98-7	E421	0.125 mg/L	0.125 mg/L	100	70.0	130	----
		nickel, dissolved	7440-02-0	E421	0.233 mg/L	0.25 mg/L	93.2	70.0	130	----
		selenium, dissolved	7782-49-2	E421	0.512 mg/L	0.5 mg/L	102	70.0	130	----
		silver, dissolved	7440-22-4	E421	0.0443 mg/L	0.05 mg/L	88.5	70.0	130	----
		sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		thallium, dissolved	7440-28-0	E421	0.443 mg/L	0.5 mg/L	88.5	70.0	130	----
		uranium, dissolved	7440-61-1	E421	ND mg/L	0.0025 mg/L	ND	70.0	130	----
		vanadium, dissolved	7440-62-2	E421	0.258 mg/L	0.25 mg/L	103	70.0	130	----
		zinc, dissolved	7440-66-6	E421	0.222 mg/L	0.25 mg/L	88.7	70.0	130	----
Speciated Metals (QCLot: 493593)										
CG2205921-008	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0393 mg/L	0.04 mg/L	98.4	70.0	130	----
Volatile Organic Compounds (QCLot: 494387)										
WT2204113-001	GW-12566614-051722-NG-001	acetone	67-64-1	E611D	94 µg/L	100 µg/L	93.5	60.0	140	----
		benzene	71-43-2	E611D	89.5 µg/L	100 µg/L	89.5	60.0	140	----

Sub-Matrix: **Water**

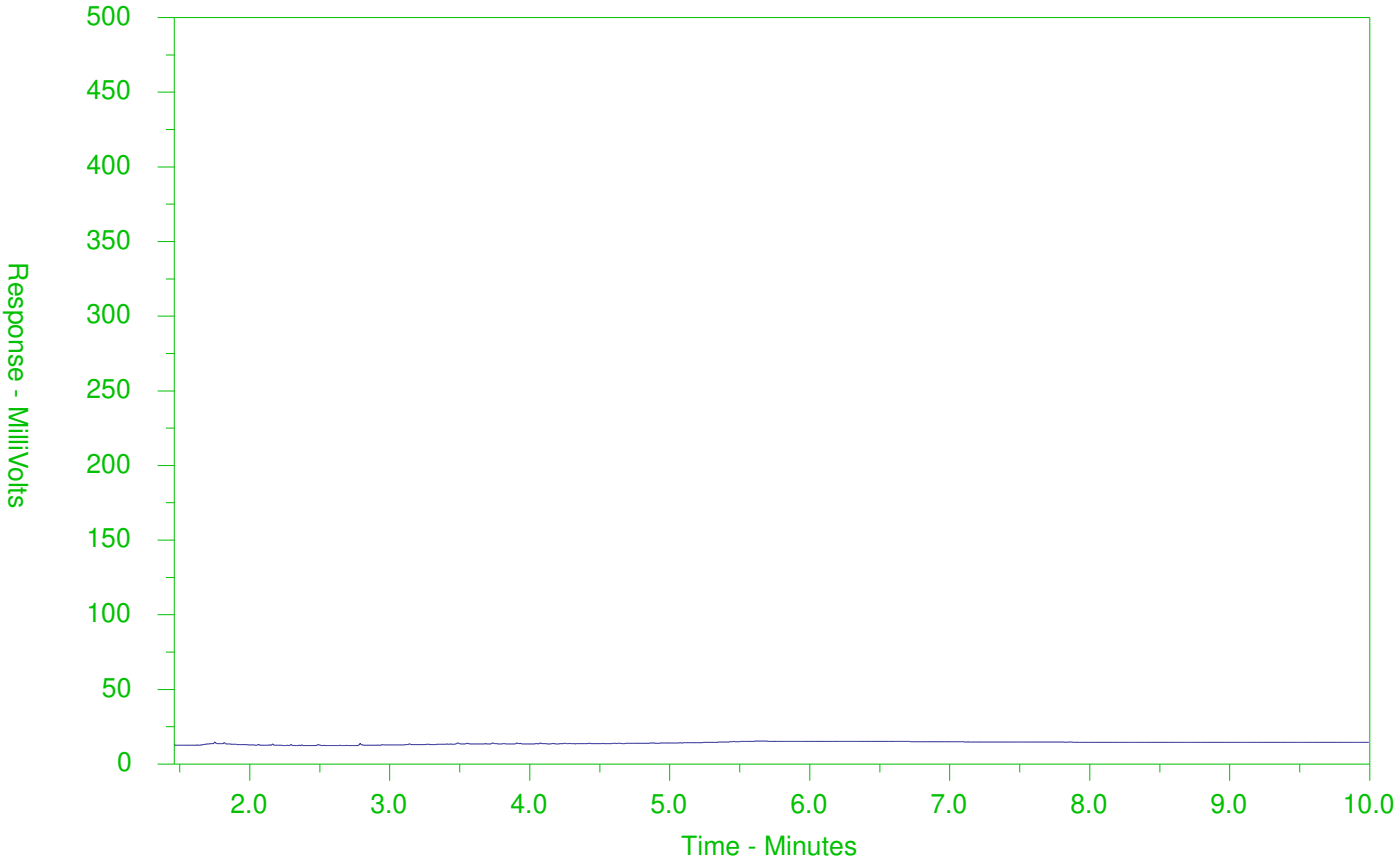
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued										
WT2204113-001	GW-12566614-051722-NG-001	bromodichloromethane	75-27-4	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		bromoform	75-25-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		bromomethane	74-83-9	E611D	91.1 µg/L	100 µg/L	91.1	60.0	140	----
		carbon tetrachloride	56-23-5	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		chlorobenzene	108-90-7	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		chloroform	67-66-3	E611D	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		dibromochloromethane	124-48-1	E611D	85.4 µg/L	100 µg/L	85.4	60.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	84.8 µg/L	100 µg/L	84.8	60.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	93.5 µg/L	100 µg/L	93.5	60.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	65.0 µg/L	100 µg/L	65.0	60.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	94.1 µg/L	100 µg/L	94.1	60.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		dichloromethane	75-09-2	E611D	94.6 µg/L	100 µg/L	94.6	60.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	79.9 µg/L	100 µg/L	79.9	60.0	140	----
		ethylbenzene	100-41-4	E611D	93.7 µg/L	100 µg/L	93.7	60.0	140	----
		hexane, n-	110-54-3	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	87 µg/L	100 µg/L	87.4	60.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	89 µg/L	100 µg/L	88.9	60.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		styrene	100-42-5	E611D	76.1 µg/L	100 µg/L	76.1	60.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	85.5 µg/L	100 µg/L	85.5	60.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	84.6 µg/L	100 µg/L	84.6	60.0	140	----
		tetrachloroethylene	127-18-4	E611D	96.4 µg/L	100 µg/L	96.4	60.0	140	----
		toluene	108-88-3	E611D	95.0 µg/L	100 µg/L	95.0	60.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	92.3 µg/L	100 µg/L	92.3	60.0	140	----
		trichloroethylene	79-01-6	E611D	87.8 µg/L	100 µg/L	87.8	60.0	140	----
		trichlorofluoromethane	75-69-4	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		vinyl chloride	75-01-4	E611D	83.7 µg/L	100 µg/L	83.7	60.0	140	----
		xylene, m+p-	179601-23-1	E611D	197 µg/L	200 µg/L	98.5	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued										
WT2204113-001	GW-12566614-051722-NG-0 01	xylene, o-	95-47-6	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	----
Volatile Organic Compounds (QCLot: 494592)										
WT2203988-001	Anonymous	benzene	71-43-2	E611A	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		ethylbenzene	100-41-4	E611A	91.2 µg/L	100 µg/L	91.2	60.0	140	----
		toluene	108-88-3	E611A	98.0 µg/L	100 µg/L	98.0	60.0	140	----
		xylene, m+p-	179601-23-1	E611A	188 µg/L	200 µg/L	94.3	60.0	140	----
		xylene, o-	95-47-6	E611A	91.6 µg/L	100 µg/L	91.6	60.0	140	----
Hydrocarbons (QCLot: 494388)										
WT2204113-001	GW-12566614-051722-NG-0 01	F1 (C6-C10)	----	E581.F1-L	1830 µg/L	2000 µg/L	91.3	60.0	140	----
Hydrocarbons (QCLot: 494591)										
WT2203988-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1730 µg/L	2000 µg/L	86.5	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-001-E601.SG
Client Sample ID: GW-12566614-051722-NG-001



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

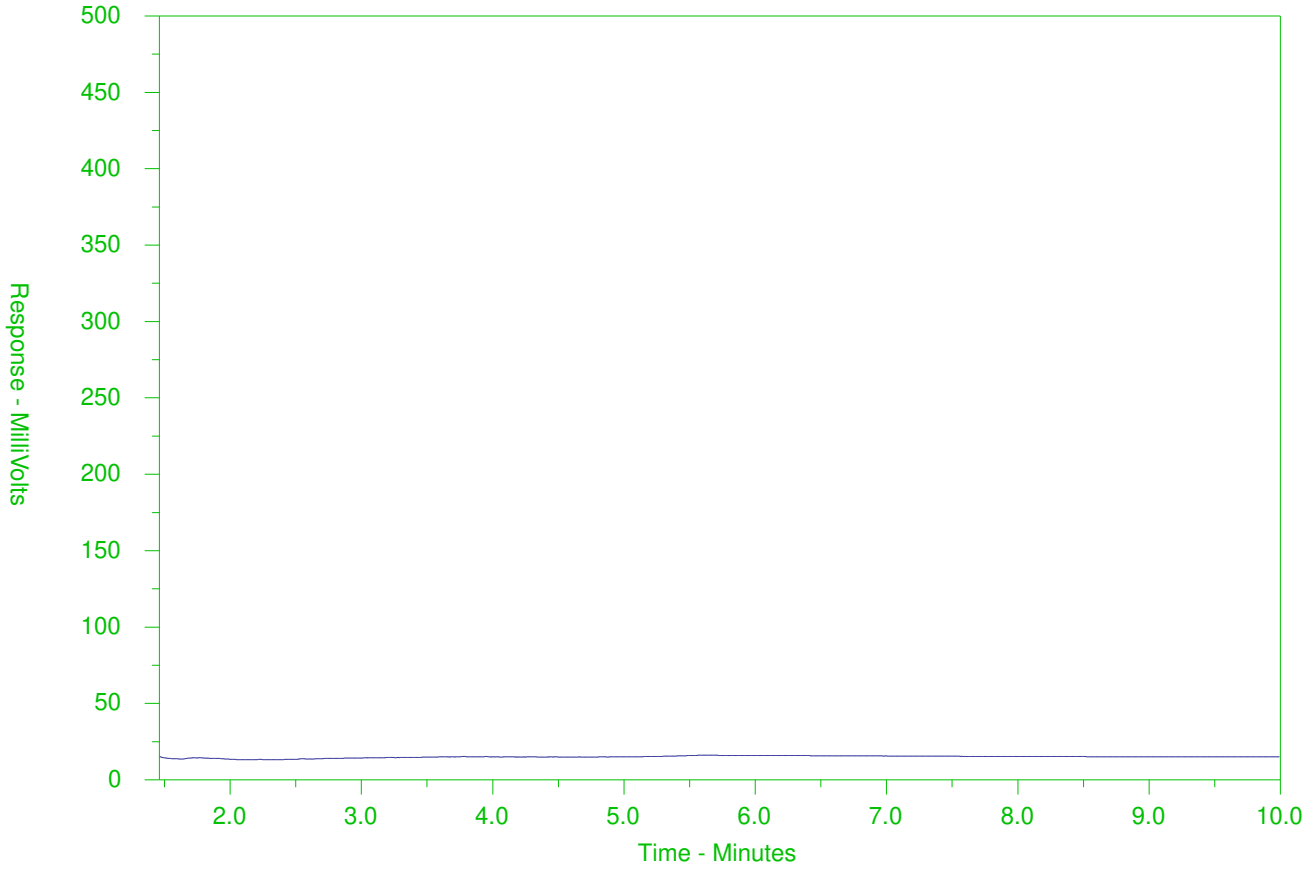
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-002-E601.SG
Client Sample ID: GW-12566614-051722-NG-002



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

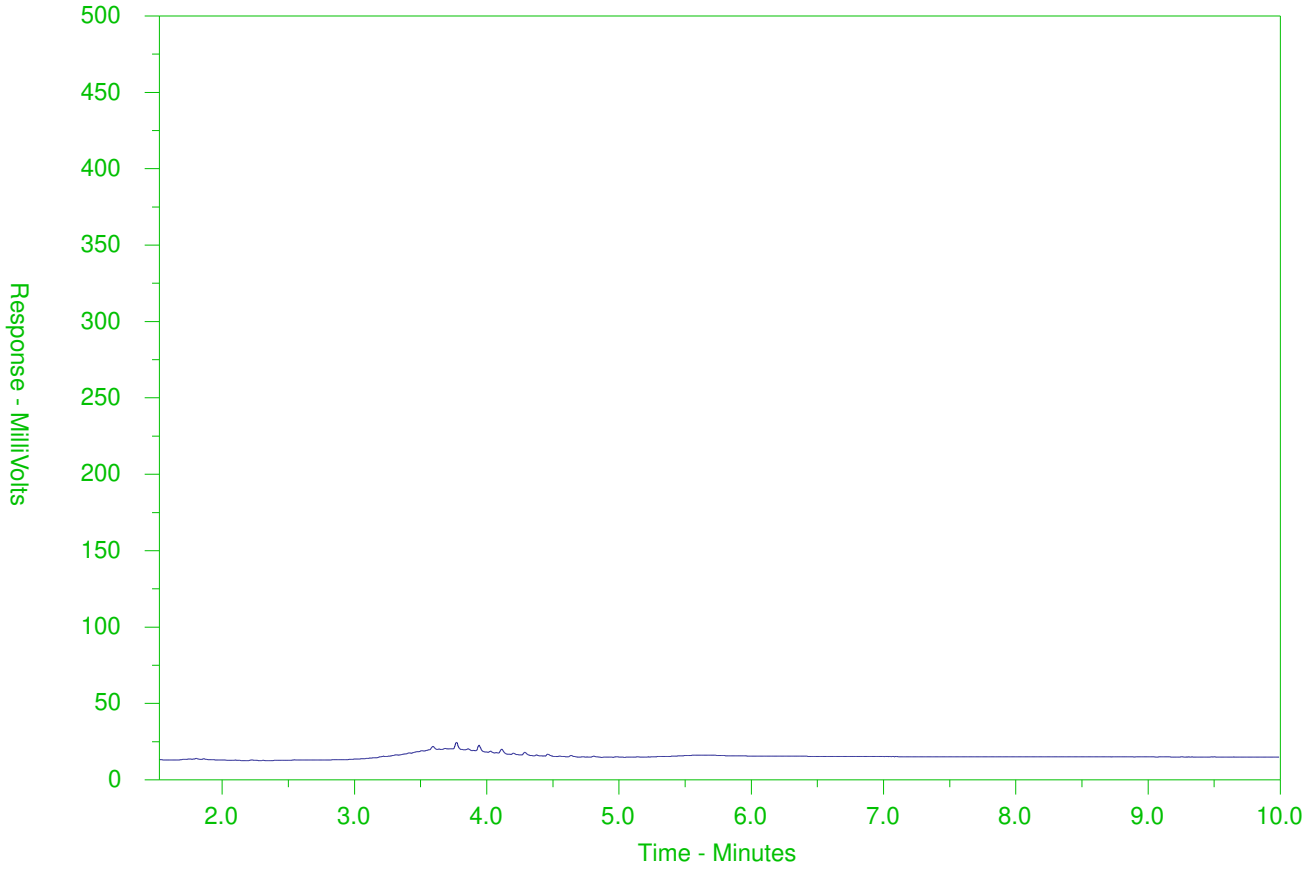
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-003-E601.SG
Client Sample ID: GW-12566614-051722-NG-003



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

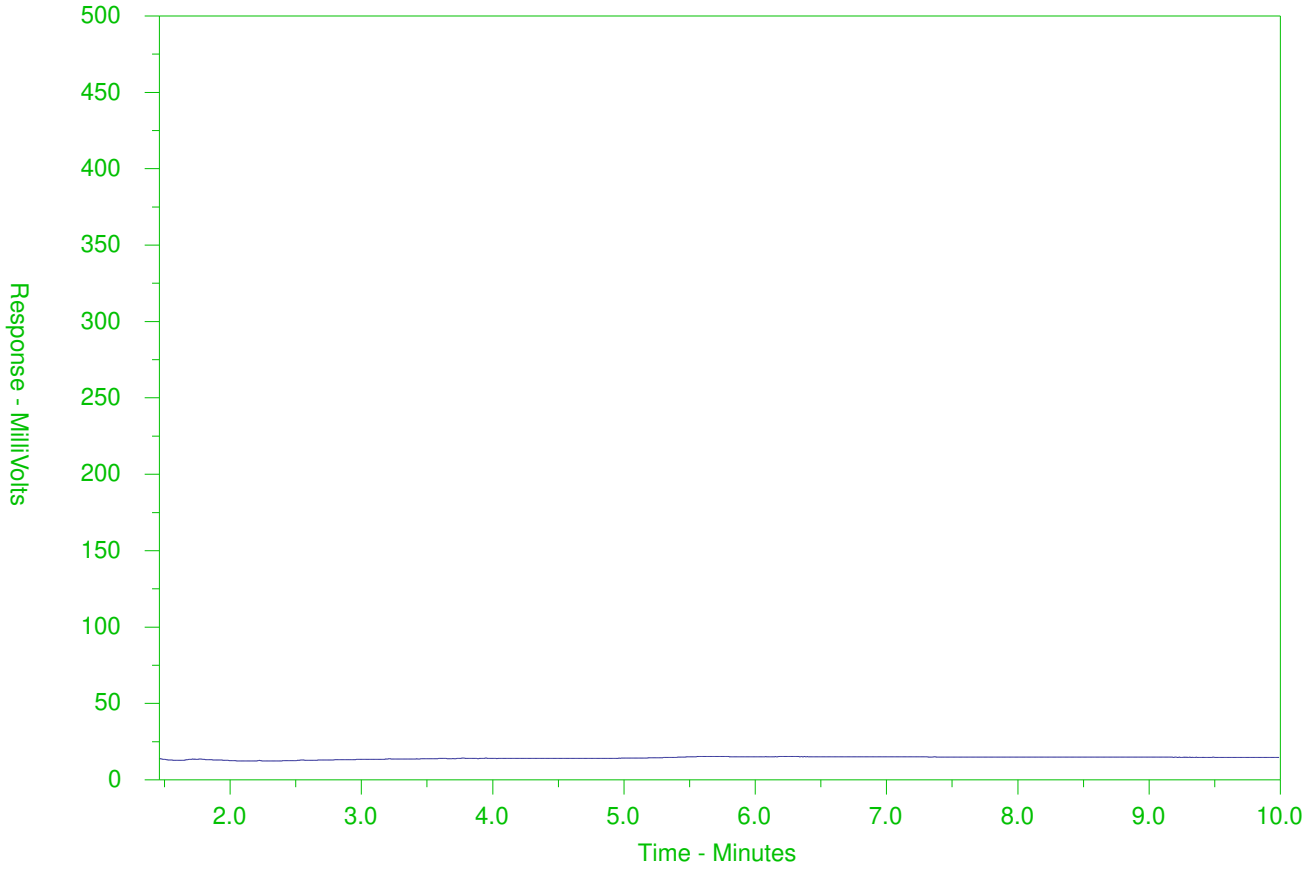
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-004-E601.SG
Client Sample ID: GW-12566614-051722-NG-004



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo

Work Order Reference

WT2204113

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: pascal.renella@ghd.com

Email 2: See SSOW/PO

Email 3:

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested please contact your AM to confirm availability.

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Invoicing-Canada@ghd.com

Email 2:

Project Information

ALS Account # / Quote #:	GHD100/WT2022GHDL1000057
Job #:	12566614
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2204113

ALS Contact: Rick H

Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metal/Inorganics	PAHS	PHC	VOCS	BTEX	Trip Blank -F1	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12566614-051722-NG-001	17/05/22	10:20	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-002	↓	11:30	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-003		14:10	WATER	4			✓		✓				
	GW-12566614-051722-NG-004		11:30	WATER	9	✓	✓	✓	✓	✓				
	trip blank	↓	N/A	WATER	2				✓		✓			
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

* TRIP BLANK EMPTY CF/ 05/17/22

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
14.5			8.1			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Nidhi Gupta	17/5/22	15:45

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	17 MAY	3:45

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
BB	May 19/22	9:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Environmental Division Waterloo
Work Order Reference
WT2204113

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients	
Select Report Format:	☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	pascal.renella@ghd.com
Email 2	See SSOW/PO
Email 3	

Turnaround Time (TAT) Requested
☒ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush resuests on weekends, statutory holidays and routine tests
Date and Time Required for all E&P TATs:
For tests that can not be performed according to the TAT, we will contact you.

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Invoicing-Canada@ghd.com
Email 2	

Project Information	
ALS Account # / Quote #:	GHD100/WT2022GHDL1000057
Job #:	12566614
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2204113

ALS Contact: Rick H

Sampler:

Analysis Request

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metal/Inorganics	PAHS	PHC	VOCS	BTEX	Trip Blank -F1	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12566614-051722-NG-001	17/05/22	10:20	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-002	↓	11:30	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-003		14:10	WATER	4			✓		✓				
	GW-12566614-051722-NG-004		11:30	WATER	9	✓	✓	✓	✓	✓				
	trip blank		N/A	WATER	2				✓		✓			
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	* TRIP BLANK EMPTY CF/ 05/17/22
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
14.5			8.1		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Nidhi Gupta	17/5/22	15:45		17/MAY	345	BB	May 19/22	9:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

CERTIFICATE OF ANALYSIS

Work Order	: **WT2204544**	Page	: 1 of 10
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 27-May-2022 10:30
PO	: 735-002942	Date Analysis Commenced	: 28-May-2022
C-O-C number	: ----	Issue Date	: 07-Jun-2022 12:52
Sampler	: ----		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2204544-004	GW-12566614-052622-NG-008	***ALS Sample #4 NG-008: Insufficient Sample. Test could not be conducted for EC,PH,CL.***

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*

Analytical Results

WT2204544-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052522-NG-005
Client sampling date / time: 25-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	2.90	0.0010	mS/cm	E100	28-May-2022	28-May-2022	502956
pH	----	7.54	0.10	pH units	E108	28-May-2022	28-May-2022	502955
Anions and Nutrients								
chloride	16887-00-6	749 DLDS,	2.50	mg/L	E235.Cl	28-May-2022	30-May-2022	502949
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	30-May-2022	30-May-2022	504606
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
barium, dissolved	7440-39-3	129 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cobalt, dissolved	7440-48-4	1.46 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	31-May-2022	31-May-2022	505316
molybdenum, dissolved	7439-98-7	7.98 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
nickel, dissolved	7440-02-0	5.87 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
selenium, dissolved	7782-49-2	0.914 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
sodium, dissolved	7440-23-5	336000 DLHC,	500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
uranium, dissolved	7440-61-1	10.4 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
dissolved mercury filtration location	----	Field	-	-	EP509	-	31-May-2022	505316
dissolved metals filtration location	----	Field	-	-	EP421	-	02-Jun-2022	507519
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	30-May-2022	504601
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059

Analytical Results

WT2204544-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052522-NG-005
Client sampling date / time: 25-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	91.7	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.2	1.0	%	E611D	31-May-2022	31-May-2022	505059
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	31-May-2022	31-May-2022	505060
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F1-BTEX	----	<25	25	µg/L	EC580	-	01-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	01-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-Jun-2022	07-Jun-2022	506541
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	86.9	1.0	%	E601.SG	01-Jun-2022	07-Jun-2022	506541
dichlorotoluene, 3,4-	97-75-0	84.6	1.0	%	E581.F1-L	31-May-2022	31-May-2022	505060
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.013	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
anthracene	120-12-7	0.040	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540

Analytical Results

WT2204544-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-052522-NG-005

Client sampling date / time: 25-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
chrysene	218-01-9	0.012	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluoranthene	206-44-0	0.117	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluorene	86-73-7	0.043	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1-	90-12-0	0.024	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1+2-	----	0.064	0.015	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 2-	91-57-6	0.040	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene	85-01-8	0.486	0.020	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
pyrene	129-00-0	0.108	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	117	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene-d8	1146-65-2	92.7	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene-d10	1517-22-2	113	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204544-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-006

Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	7.76	0.0010	mS/cm	E100	28-May-2022	28-May-2022	502956
pH	----	7.84	0.10	pH units	E108	28-May-2022	28-May-2022	502955
Anions and Nutrients								
chloride	16887-00-6	2820 DLDS,	10.0	mg/L	E235.Cl	28-May-2022	30-May-2022	502949
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	30-May-2022	30-May-2022	504606
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
barium, dissolved	7440-39-3	573 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cadmium, dissolved	7440-43-9	0.0799 DLHC,	0.0500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cobalt, dissolved	7440-48-4	1.23 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
copper, dissolved	7440-50-8	3.75 DLHC,	2.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	31-May-2022	31-May-2022	505316
molybdenum, dissolved	7439-98-7	6.93 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519

Analytical Results

WT2204544-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-006
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
selenium, dissolved	7782-49-2	0.745 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
sodium, dissolved	7440-23-5	1570000 DLHC,	5000	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
uranium, dissolved	7440-61-1	10.3 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
dissolved mercury filtration location	----	Field	-	-	EP509	-	31-May-2022	505316
dissolved metals filtration location	----	Field	-	-	EP421	-	02-Jun-2022	507519
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	30-May-2022	504601
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059

Analytical Results

WT2204544-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-006
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	91.0	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	31-May-2022	31-May-2022	505059
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	31-May-2022	31-May-2022	505060
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F1-BTEX	----	<25	25	µg/L	EC580	-	01-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	01-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-Jun-2022	07-Jun-2022	506541
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	92.6	1.0	%	E601.SG	01-Jun-2022	07-Jun-2022	506541
dichlorotoluene, 3,4-	97-75-0	88.0	1.0	%	E581.F1-L	31-May-2022	31-May-2022	505060
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.045	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
anthracene	120-12-7	0.018	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluoranthene	206-44-0	0.048	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluorene	86-73-7	0.074	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1-	90-12-0	0.144	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1+2-	----	0.224	0.015	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 2-	91-57-6	0.080	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene	85-01-8	0.638	0.020	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
pyrene	129-00-0	0.100	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	103	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene-d8	1146-65-2	115	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene-d10	1517-22-2	131	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204544-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-007
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	92.4	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.2	1.0	%	E611D	31-May-2022	31-May-2022	505059

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204544-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-008
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	30-May-2022	30-May-2022	504606
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
barium, dissolved	7440-39-3	473 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cobalt, dissolved	7440-48-4	2.78 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	31-May-2022	31-May-2022	505316
molybdenum, dissolved	7439-98-7	17.4 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
nickel, dissolved	7440-02-0	9.96 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
selenium, dissolved	7782-49-2	0.701 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
sodium, dissolved	7440-23-5	381000 DLHC,	500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
uranium, dissolved	7440-61-1	5.51 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
dissolved mercury filtration location	----	Field	-	-	EP509	-	31-May-2022	505316
dissolved metals filtration location	----	Field	-	-	EP421	-	02-Jun-2022	507519
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	30-May-2022	504601
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059

Analytical Results

WT2204544-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-008
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	90.4	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.6	1.0	%	E611D	31-May-2022	31-May-2022	505059
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	31-May-2022	31-May-2022	505060
F1-BTEX	----	<25	25	µg/L	EC580	-	01-Jun-2022	-
Hydrocarbons Surrogates								
dichlorotoluene, 3,4-	97-75-0	85.0	1.0	%	E581.F1-L	31-May-2022	31-May-2022	505060

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2204544**	Page	: 1 of 11
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 27-May-2022 10:30
PO	: 735-002942	Issue Date	: 07-Jun-2022 12:53
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Dissolved Metals	Anonymous	Anonymous	selenium, dissolved	7782-49-2	E421	132 % MES	70.0-130%	Recovery greater than upper data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	tetrachloroethane, 1,1,2,2-	79-34-5	E611D	34.9 % RRQC	60.0-140%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*
RRQC	*Refer to report comments for information regarding this QC result.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE										
GW-12566614-052622-NG-006	E235.Cl	26-May-2022	----	----	----		30-May-2022	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE										
GW-12566614-052522-NG-005	E235.Cl	25-May-2022	----	----	----		30-May-2022	28 days	6 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-052622-NG-006	E336	26-May-2022	----	----	----		30-May-2022	14 days	5 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-052622-NG-008	E336	26-May-2022	----	----	----		30-May-2022	14 days	5 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-052522-NG-005	E336	25-May-2022	----	----	----		30-May-2022	14 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12566614-052622-NG-006	E509	26-May-2022	31-May-2022	----	----		31-May-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12566614-052622-NG-008	E509	26-May-2022	31-May-2022	----	----		31-May-2022	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12566614-052522-NG-005	E509	25-May-2022	31-May-2022	----	----		31-May-2022	28 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-052622-NG-006	E421	26-May-2022	02-Jun-2022	----	----		02-Jun-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-052622-NG-008	E421	26-May-2022	02-Jun-2022	----	----		02-Jun-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-052522-NG-005	E421	25-May-2022	02-Jun-2022	----	----		02-Jun-2022	180 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-006	E581.F1-L	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-008	E581.F1-L	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-052522-NG-005	E581.F1-L	25-May-2022	31-May-2022	----	----		31-May-2022	14 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-052622-NG-006	E601.SG	26-May-2022	01-Jun-2022	14 days	6 days	✓	07-Jun-2022	40 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-052522-NG-005	E601.SG	25-May-2022	01-Jun-2022	14 days	7 days	✓	07-Jun-2022	40 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE										
GW-12566614-052622-NG-006	E100	26-May-2022	----	----	----		28-May-2022	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE										
GW-12566614-052522-NG-005	E100	25-May-2022	----	----	----		28-May-2022	28 days	4 days	✓
Physical Tests : pH by Meter										
HDPE										
GW-12566614-052622-NG-006	E108	26-May-2022	----	----	----		28-May-2022	0.25 hrs	64 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE										
GW-12566614-052522-NG-005	E108	25-May-2022	----	----	----		28-May-2022	0.25 hrs	88 hrs	× EHTR-FM
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-052622-NG-006	E641A	26-May-2022	01-Jun-2022	14 days	6 days	✓	02-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-052522-NG-005	E641A	25-May-2022	01-Jun-2022	14 days	7 days	✓	02-Jun-2022	40 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-052622-NG-006	E532A	26-May-2022	----	----	----		30-May-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-052622-NG-008	E532A	26-May-2022	----	----	----		30-May-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-052522-NG-005	E532A	25-May-2022	----	----	----		30-May-2022	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-006	E611D	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-007	E611D	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-008	E611D	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052522-NG-005	E611D	25-May-2022	31-May-2022	----	----		31-May-2022	14 days	6 days	✓

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Conductivity in Water	E100	502956	1	17	5.8	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
pH by Meter	E108	502955	1	18	5.5	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	2	16	12.5	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓
Laboratory Control Samples (LCS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Conductivity in Water	E100	502956	1	17	5.8	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	506540	1	10	10.0	5.0	✓
pH by Meter	E108	502955	1	18	5.5	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	506541	1	13	7.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	1	16	6.2	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓
Method Blanks (MB)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Conductivity in Water	E100	502956	1	17	5.8	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	506540	1	10	10.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	506541	1	13	7.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	1	16	6.2	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	1	16	6.2	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **WT2204544**	Page	: 1 of 14
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 27-May-2022 10:30
PO	: 735-002942	Date Analysis Commenced	: 28-May-2022
C-O-C number	: ----	Issue Date	: 07-Jun-2022 12:53
Sampler	: ----		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 502955)											
WT2204540-030	Anonymous	pH	----	E108	0.10	pH units	6.81	6.81	0	Diff <2x LOR	----
Physical Tests (QC Lot: 502956)											
WT2204540-030	Anonymous	conductivity	----	E100	2.0	µS/cm	28.9	28.8	0.1	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 502949)											
WT2204540-030	Anonymous	chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Cyanides (QC Lot: 504606)											
WT2204494-002	Anonymous	cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 505316)											
WT2204494-002	Anonymous	mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 507519)											
WT2204494-002	Anonymous	antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		barium, dissolved	7440-39-3	E421	0.00100	mg/L	90.8 µg/L	0.0915	0.718%	20%	----
		beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		boron, dissolved	7440-42-8	E421	0.100	mg/L	<100 µg/L	<0.100	0	Diff <2x LOR	----
		cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	----
		chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		nickel, dissolved	7440-02-0	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		sodium, dissolved	7440-23-5	E421	0.500	mg/L	48200 µg/L	49.6	2.70%	20%	----
		thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		uranium, dissolved	7440-61-1	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 504601)											
WT2204494-002	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 505059)											
WT2204497-003	Anonymous	ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
WT2204497-003	Anonymous	acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 505059) - continued											
WT2204497-003	Anonymous	trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 505060)											
WT2204497-003	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 502956)						
conductivity	----	E100	1	µS/cm	1.1	----
Anions and Nutrients (QCLot: 502949)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 504606)						
cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 505316)						
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 507519)						
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Speciated Metals (QCLot: 504601)						
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 505059)						
acetone	67-64-1	E611D	20	µg/L	<20	----
benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued						
bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued						
xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 505060)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 506541)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 506540)						
acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 502955)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 502956)									
conductivity	----	E100	1	µS/cm	1409 µS/cm	96.9	90.0	110	----
Anions and Nutrients (QCLot: 502949)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.6	90.0	110	----
Cyanides (QCLot: 504606)									
cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	92.4	80.0	120	----
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	98.3	80.0	120	----
Dissolved Metals (QCLot: 507519)									
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	106	80.0	120	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	106	80.0	120	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	106	80.0	120	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	104	80.0	120	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	105	80.0	120	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	106	80.0	120	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	105	80.0	120	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	105	80.0	120	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	104	80.0	120	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	104	80.0	120	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	102	80.0	120	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	106	80.0	120	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	105	80.0	120	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	96.9	80.0	120	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	114	80.0	120	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	101	80.0	120	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	107	80.0	120	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	108	80.0	120	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	106	80.0	120	----
Speciated Metals (QCLot: 504601)									
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	100	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 505059)									
acetone	67-64-1	E611D	20	µg/L	100 µg/L	97.6	70.0	130	----
benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	99.9	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	92.6	70.0	130	----
bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	95.0	70.0	130	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	95.1	70.0	130	----
chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	93.5	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	89.5	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	97.5	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	99.4	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	114	70.0	130	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	93.4	70.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	91.2	70.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	93.9	70.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	90.5	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	86.6	70.0	130	----
dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	92.2	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	87.6	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	85.2	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	82.1	70.0	130	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	91.0	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	91.5	70.0	130	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	96.4	70.0	130	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	98.2	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	93.0	70.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	86.4	70.0	130	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	92.9	70.0	130	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	96.0	70.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued									
vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	88.8	70.0	130	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	103	70.0	130	----
xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	102	70.0	130	----
Hydrocarbons (QCLot: 505060)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	104	80.0	120	----
Hydrocarbons (QCLot: 506541)									
F2 (C10-C16)	----	E601.SG	100	µg/L	5018 µg/L	104	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6312 µg/L	130	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	6087 µg/L	82.8	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 506540)									
acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	93.6	50.0	140	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	90.6	50.0	140	----
anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	90.6	50.0	140	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	95.3	50.0	140	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	81.2	50.0	140	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	92.0	50.0	140	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	82.1	50.0	140	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	88.6	50.0	140	----
chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	94.6	50.0	140	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	99.4	50.0	140	----
fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	100	50.0	140	----
fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	95.4	50.0	140	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	98.4	50.0	140	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	90.9	50.0	140	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	84.4	50.0	140	----
naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	87.6	50.0	140	----
phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	101	50.0	140	----
pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	89.7	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 502949)										
WT2204540-030	Anonymous	chloride	16887-00-6	E235.Cl	101 mg/L	100 mg/L	101	75.0	125	----
Cyanides (QCLot: 504606)										
WT2204494-002	Anonymous	cyanide, weak acid dissociable	----	E336	0.118 mg/L	0.125 mg/L	94.8	70.0	130	----
Dissolved Metals (QCLot: 505316)										
WT2204494-003	Anonymous	mercury, dissolved	7439-97-6	E509	0.0000927 mg/L	0.0001 mg/L	92.7	70.0	130	----
Dissolved Metals (QCLot: 507519)										
WT2204494-003	Anonymous	antimony, dissolved	7440-36-0	E421	0.0610 mg/L	0.05 mg/L	122	70.0	130	----
		arsenic, dissolved	7440-38-2	E421	0.0624 mg/L	0.05 mg/L	125	70.0	130	----
		barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		beryllium, dissolved	7440-41-7	E421	0.00609 mg/L	0.005 mg/L	122	70.0	130	----
		boron, dissolved	7440-42-8	E421	0.057 mg/L	0.05 mg/L	114	70.0	130	----
		cadmium, dissolved	7440-43-9	E421	0.00600 mg/L	0.005 mg/L	120	70.0	130	----
		chromium, dissolved	7440-47-3	E421	0.0147 mg/L	0.0125 mg/L	118	70.0	130	----
		cobalt, dissolved	7440-48-4	E421	0.0143 mg/L	0.0125 mg/L	114	70.0	130	----
		copper, dissolved	7440-50-8	E421	0.0138 mg/L	0.0125 mg/L	110	70.0	130	----
		lead, dissolved	7439-92-1	E421	0.0272 mg/L	0.025 mg/L	109	70.0	130	----
		molybdenum, dissolved	7439-98-7	E421	0.0151 mg/L	0.0125 mg/L	121	70.0	130	----
		nickel, dissolved	7440-02-0	E421	0.0285 mg/L	0.025 mg/L	114	70.0	130	----
		selenium, dissolved	7782-49-2	E421	0.0658 mg/L	0.05 mg/L	132	70.0	130	MES
		silver, dissolved	7440-22-4	E421	0.00555 mg/L	0.005 mg/L	111	70.0	130	----
		sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		thallium, dissolved	7440-28-0	E421	0.0545 mg/L	0.05 mg/L	109	70.0	130	----
		uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		vanadium, dissolved	7440-62-2	E421	0.0307 mg/L	0.025 mg/L	123	70.0	130	----
		zinc, dissolved	7440-66-6	E421	0.0299 mg/L	0.025 mg/L	119	70.0	130	----
Speciated Metals (QCLot: 504601)										
WT2204494-002	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0399 mg/L	0.04 mg/L	99.7	70.0	130	----
Volatile Organic Compounds (QCLot: 505059)										
WT2204458-001	Anonymous	acetone	67-64-1	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		benzene	71-43-2	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		bromodichloromethane	75-27-4	E611D	80.0 µg/L	100 µg/L	80.0	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued										
WT2204458-001	Anonymous	bromoform	75-25-2	E611D	80.6 µg/L	100 µg/L	80.6	60.0	140	----
		bromomethane	74-83-9	E611D	83.4 µg/L	100 µg/L	83.4	60.0	140	----
		carbon tetrachloride	56-23-5	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		chlorobenzene	108-90-7	E611D	88.8 µg/L	100 µg/L	88.8	60.0	140	----
		chloroform	67-66-3	E611D	85.0 µg/L	100 µg/L	85.0	60.0	140	----
		dibromochloromethane	124-48-1	E611D	93.1 µg/L	100 µg/L	93.1	60.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	79.7 µg/L	100 µg/L	79.7	60.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	91.3 µg/L	100 µg/L	91.3	60.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	96.0 µg/L	100 µg/L	96.0	60.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	93.9 µg/L	100 µg/L	93.9	60.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	87.0 µg/L	100 µg/L	87.0	60.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	81.7 µg/L	100 µg/L	81.7	60.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	87.8 µg/L	100 µg/L	87.8	60.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	85.3 µg/L	100 µg/L	85.3	60.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	79.8 µg/L	100 µg/L	79.8	60.0	140	----
		dichloromethane	75-09-2	E611D	79.6 µg/L	100 µg/L	79.6	60.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	80.4 µg/L	100 µg/L	80.4	60.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	74.6 µg/L	100 µg/L	74.6	60.0	140	----
		ethylbenzene	100-41-4	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		hexane, n-	110-54-3	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	77 µg/L	100 µg/L	77.0	60.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	76.1 µg/L	100 µg/L	76.1	60.0	140	----
		styrene	100-42-5	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	87.0 µg/L	100 µg/L	87.0	60.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	34.9 µg/L	100 µg/L	34.9	60.0	140	RRQC
		tetrachloroethylene	127-18-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		toluene	108-88-3	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	91.2 µg/L	100 µg/L	91.2	60.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	85.3 µg/L	100 µg/L	85.3	60.0	140	----
		trichloroethylene	79-01-6	E611D	90.9 µg/L	100 µg/L	90.9	60.0	140	----
		trichlorofluoromethane	75-69-4	E611D	96.8 µg/L	100 µg/L	96.8	60.0	140	----
		vinyl chloride	75-01-4	E611D	79.8 µg/L	100 µg/L	79.8	60.0	140	----
		xylene, m+p-	179601-23-1	E611D	134 µg/L	200 µg/L	66.8	60.0	140	----
		xylene, o-	95-47-6	E611D	69.2 µg/L	100 µg/L	69.2	60.0	140	----

Sub-Matrix: **Water**

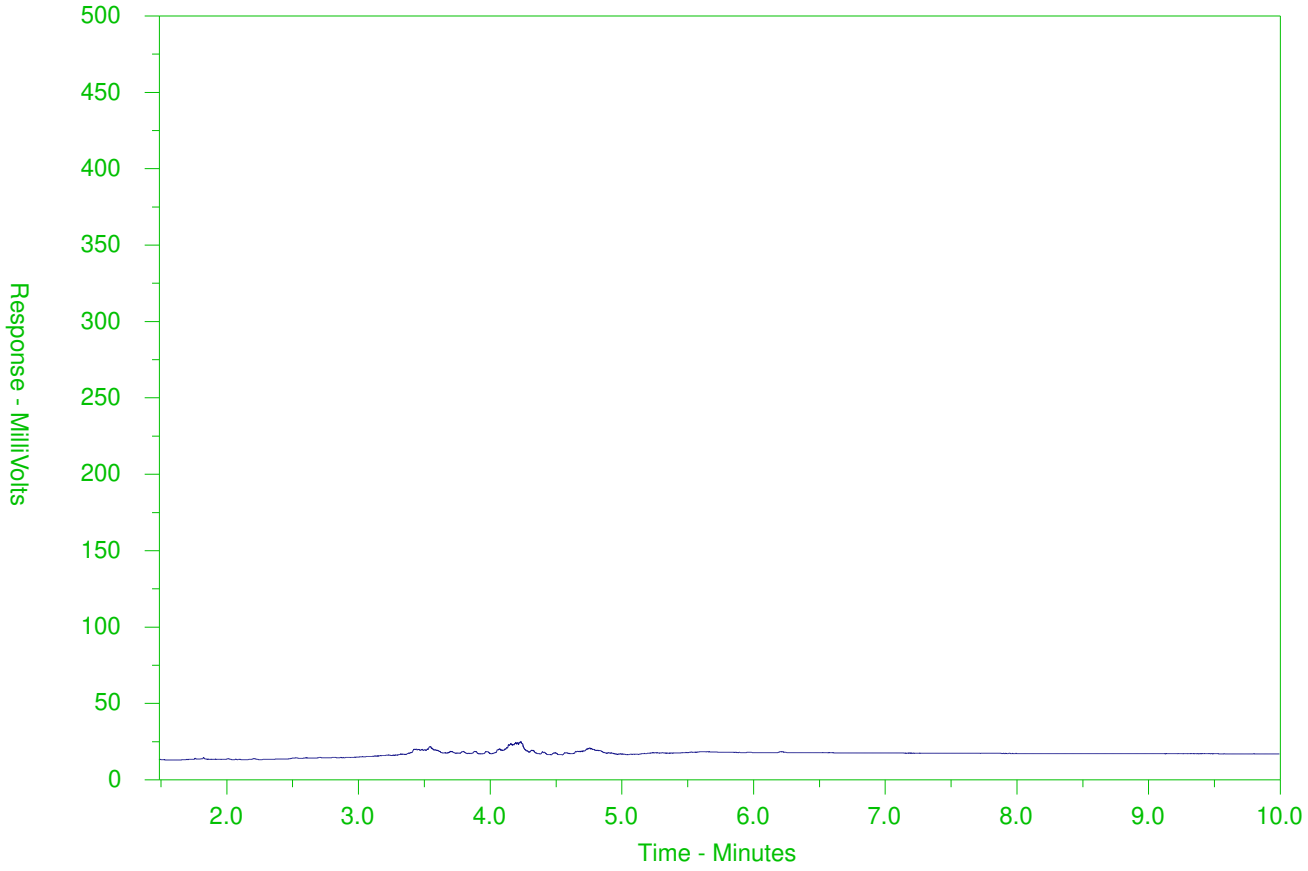
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Hydrocarbons (QCLot: 505060)										
WT2204497-003	Anonymous	F1 (C6-C10)	----	E581.F1-L	1730 µg/L	2000 µg/L	86.6	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*
RRQC	*Refer to report comments for information regarding this QC result.*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204544-001-E601.SG
Client Sample ID: GW-12566614-052522-NG-005



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

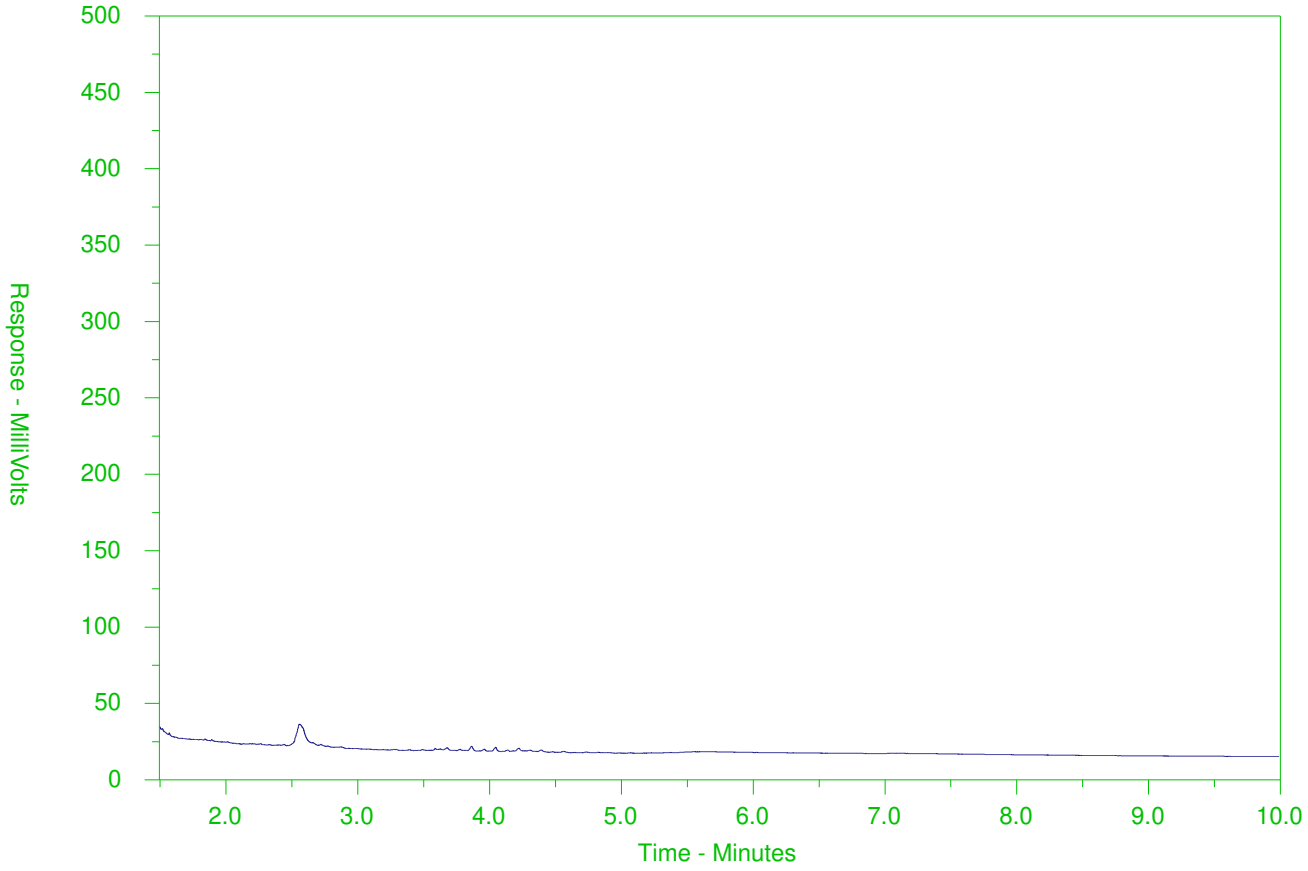
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204544-002-E601.SG
Client Sample ID: GW-12566614-052622-NG-006



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20

Page

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2204544

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: Invoicing-Canada@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimu
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minim
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minim
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minim
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge fees may apply to rush resuests on weekends, statutory holidays routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #: GHD100/WT2022GHDL1000057
Job #: 12566614
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): WT2204544
ALS Contact: Rick H
Sampler:

Analysis Request

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metal/Inorganics	PAHS	PHC	VOCS	BTEX	Trip Blank -F1	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12566614-052522-NG-005	25-05-22	14:30	WATER	9	X	X	X	X	X				
	GW-12566614-052622-NG-006	26-05-22	10:20	WATER	9	X	X	X	X	X				
	GW-12566614-052622-NG-007	26-05-22	10:45	WATER	2				X					
	GW-12566614-052622-NG-008	26-05-22	13:00	WATER	6	X		X	X					
	Trip Blank	26-05-22	N/A	WATER	2						X			
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO
Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☑ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
13.3			3.6	5.9	1.9	

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
N Gaudin	26/5/22	14:40

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	26/5/22	2:40

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	05/27/22	1030

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Appendix C

Data Quality Assessment and Verification

Technical Memorandum

June 17, 2022

To	Joseph Drader	**Tel**	450-902-4349
Copy to	Nidhi Gupta	**Email**	pascal.renella@ghd.com
From	Pascal Renella/an/01	**Ref. No.**	12566614
Subject	Data Quality Assessment and Verification		

Laboratory:	ALS Canada Ltd.
Lab Job No.:	L2702132, WT2204113, WT2204544
Date(s) Sampled:	April 28; May 17, 25, 26, 2022
Media Sampled:	Soil and Groundwater

QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
Holding Times	Analyte specific	☒	☐	☐	☐
Temperature	<10ºC at receipt	☐	☒	☐	☐
Sample Preservation	Required container/preservatives	☒	☐	☐	☐
Field Duplicate (blind)	Within 50% of original/<1xRL	☒	☐	☐	☐
Field Blank (blind)	Non detect	☐	☐	☐	☒
Trip Blank	Non detect	☐	☐	☐	☒
Lab QA/QC	Within standard recoveries	☒	☐	☐	☐

The following results are qualified due to high temperature (13.3°C) upon arrival at the laboratory:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	conductivity	2.90	J	mS/cm
WT2204544	05/25/22	GW-12566614-052522-NG-005	pH	7.54	J	pH units
WT2204544	05/25/22	GW-12566614-052522-NG-005	chloride	749	J	mg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	cyanide, weak acid dissociable	2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	antimony, dissolved	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	arsenic, dissolved	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	barium, dissolved	129	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	beryllium, dissolved	0.2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	boron, dissolved	100	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	cadmium, dissolved	0.05	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chromium, dissolved	5	UJ	µg/L

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	cobalt, dissolved	1.46	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	copper, dissolved	2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	lead, dissolved	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	mercury, dissolved	0.005	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	molybdenum, dissolved	7.98	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	nickel, dissolved	5.87	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	selenium, dissolved	0.914	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	silver, dissolved	0.1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	sodium, dissolved	336000	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	thallium, dissolved	0.1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	uranium, dissolved	10.4	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	vanadium, dissolved	5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	zinc, dissolved	10	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chromium, hexavalent [Cr VI], dissolved	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	acetone	20	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	bromodichloromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	bromoform	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	bromomethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	carbon tetrachloride	0.2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chlorobenzene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chloroform	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dibromochloromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dibromoethane, 1,2-	0.2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorobenzene, 1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorobenzene, 1,3-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorobenzene, 1,4-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorodifluoromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethane, 1,1-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethane, 1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethylene, 1,1-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethylene, cis-1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethylene, trans-1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloromethane	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropane, 1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropylene, cis+trans-1,3-	0.5	UJ	µg/L

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropylene, cis-1,3-	0.3	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropylene, trans-1,3-	0.3	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	ethylbenzene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	hexane, n-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methyl ethyl ketone [MEK]	20	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methyl isobutyl ketone [MIBK]	20	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methyl-tert-butyl ether [MTBE]	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	styrene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	tetrachloroethane, 1,1,1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	tetrachloroethane, 1,1,2,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	tetrachloroethylene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	toluene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichloroethane, 1,1,1-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichloroethane, 1,1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichloroethylene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichlorofluoromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	vinyl chloride	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	xylene, m+p-	0.4	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	xylene, o-	0.3	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	xylenes, total	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	BTEX, total	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F1 (C6-C10)	25	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F2 (C10-C16)	100	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F3 (C16-C34)	250	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F4 (C34-C50)	250	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F1-BTEX	25	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	hydrocarbons, total (C6-C50)	370	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	acenaphthene	0.013	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	acenaphthylene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	anthracene	0.040	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benz(a)anthracene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(a)pyrene	0.005	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(b+j)fluoranthene	0.01	UJ	µg/L

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(g,h,i)perylene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(k)fluoranthene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chrysene	0.012	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dibenz(a,h)anthracene	0.005	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	fluoranthene	0.117	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	fluorene	0.043	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	indeno(1,2,3-c,d)pyrene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methylnaphthalene, 1+2-	0.064	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methylnaphthalene, 1-	0.024	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methylnaphthalene, 2-	0.040	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	naphthalene	0.05	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	phenanthrene	0.486	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	pyrene	0.108	J	µg/L

Conclusions:

Based on the assessment detailed in the foregoing, the data summarized are acceptable with the specific qualifications noted above.

Notes:

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
BTEX - Benzene, Toluene, Ethylbenzene, Xylene
QA/QC - Quality Assurance/Quality Control
RL - Reporting Limit
N/A - Not Applicable

Data verification reference documents:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, September 2016.
2. "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", Laboratory Services Branch, Ministry of the Environment, March 9, 2004, amended as of July 1, 2011

Regards



Pascal Renella
Data Management - Data Validator


GHD

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05 September 2024

Margaret Wolodarkski
Program Manager, Ottawa Innovation Campus
Nokia Canada Inc.
600 March Road
Ottawa, Ontario K2K 2T6

Groundwater Sampling Activities, Nokia Property Redevelopment, 600 March Road, Kanata (Ottawa), Ontario

GHD has prepared this letter for Nokia Canada Inc. (Nokia) to present the findings of the groundwater sampling activities completed on April 27th, 2023, in the southern parking lot area of the Nokia Property located at 600 March Road in Kanata (Ottawa), Ontario (Site or Property). GHD previously completed the following environmental assessments at the Site, including:

– Phase One Environmental Site Assessment (ESA), 600 March Road, Kanata (Ottawa), Ontario, dated April 20, 2022.
– Phase Two Environmental Site Assessment (ESA), 600 March Road, Kanata (Ottawa), Ontario, dated July 19, 2022.

These reports were completed for the entire Nokia Property, which includes both the southern parking lot area and northern office campus area. Based on a review of the 2022 groundwater analytical results, all groundwater concentrations from the southern parking lot area were below applicable Ontario Ministry of Environment, Conservation, and Parks (MECP) standards. This letter will focus on current groundwater sampling activities and laboratory analytical results from the southern parking lot area, as part of due diligence and future municipal planning approval purposes.

GHD also completed additional geotechnical and hydrogeological assessments in the southern parking lot of the Site at the time of the current groundwater sampling activities. Details regarding specific Site geology (i.e., stratigraphy, bedrock conditions, etc.) and hydrogeological details (i.e., groundwater depth/elevation, flow direction, hydraulic conductivity, etc.) are addressed in those report(s).

1. Field Program

GHD conducted groundwater sampling activities on April 27, 2023, at six existing groundwater monitoring wells installed in 2022 (BH01-22, BH02-22, BH03-22, BH06-22, BH11-22, and BH12-22) and three new monitoring wells installed in 2023 (BH3-23, BH4-23, and BH6-23). Borehole and monitoring well locations are presented on **Figure 1**. Borehole and monitoring well construction details are presented in above noted ESA documents and 2023 geotechnical and hydrogeological assessment report(s).

In order to ensure that samples representative of on-Site groundwater conditions was obtained, each monitoring well was purged prior to groundwater sample collection using dedicated tubing and peristaltic pump (for low-flow sampling). The following protocol was generally followed at each monitoring well location during well purging activities:

– Groundwater level measurements were collected prior and subsequent to well development activities using a calibrated oil/water interface probe. The depth to water was measured relative to a specific reference point in the monitoring well.
– Where low-flow sampling techniques were used, a minimum of three well volumes of water were purged from the monitoring well. In the event that slow groundwater recharge conditions were encountered, the well was purged until dry and then allowed to recover prior to sample collection. Field measurements of temperature, pH, turbidity, and electrical conductivity were taken using a water quality meter after each purged well volume was removed until consistent field measurements were recorded indicating that water in the well was representative of the actual groundwater conditions.
– Groundwater in the monitoring well was allowed to recover and settle prior to sample collection to reduce sediment agitation and mobilization in volatile and semi-volatile samples.

Groundwater samples were collected from a total of nine monitoring wells (BH01-22, BH02-22, BH03-22, BH06-22, BH11-22, BH12-22, BH3-23, BH4-23, and BH6-23), with one duplicate sample collected from BH3-23 for quality assurance/quality control (QA/QC) purposes.

The groundwater samples were collected and placed directly into laboratory-supplied sample containers specific to the analytical parameters. Groundwater samples were submitted for laboratory analysis of the following parameters: metals/inorganics, petroleum hydrocarbons (PHC F_1 to F_4), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs). Groundwater samples collected for metals analysis were field filtered using a 0.45-micron filter prior to sample collection. Samples were stored in coolers chilled with ice for sample preservation and submitted to the laboratory for analysis under chain-of-custody protocol. The chain-of-custody forms document the condition and handling of the samples throughout the collection, transportation, and final analysis of the samples.

2. Regulatory Standards

This section presents the regulatory standards that were used to evaluate the analytical results of the groundwater samples collected at the Site. GHD compared the analytical results to the generic Site Condition Standards (SCS) provided in the Ontario Ministry of the Environment[1] (MOE) document entitled, "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act," dated April 15, 2011 (hereafter referred to as the 2011 MECP Standards).

Based on the Site conditions and the definition of area of natural significance provided in Ontario Regulation (O. Reg.) 153/04, the groundwater analytical results on the Site were assessed to the MECP Table 7: Full Depth Generic Site Conditions Standards for Shallow Soils in a Non-Potable Ground Water Condition (MECP Table 7 Standard). The regulatory standards used to evaluate the 2023 analytical results are consistent with those used in the 2022 Phase Two ESA (GHD).

[1] Ministry of the Environment (MOE) was renamed the Ministry of Environment and Climate Change (MECP) on July 3, 2014, and renamed again on July 1, 2018, to Ministry of the Environment, Conservation, and Parks (MECP), and as a result all references to the "Ministry of the Environment", "MOE", and MECP refer to the MECP.

3. Analytical Results

A summary of the groundwater quality results compared to MECP Table 7 Standards is presented in **Table 1**. A copy of the ALS laboratory certificates of analysis is provided in **Attachment 1**. GHD also completed quality assessment and verification of the groundwater analytical data as presented in the technical memorandum provided in **Attachment 2**, with the data summarized as acceptable without qualification.

Based on GHD's review, all parameters were reported below MECP Table 7 Standards for the groundwater samples collected on April 27, 2023. These results are similar to the groundwater analytical results from the 2022 Phase Two ESA.

4. Conclusion

Based on the groundwater analytical results collected as part of the April 27th, 2023, sampling activities, all groundwater parameters were reported below MECP Table 7 Standards. These results are similar to the groundwater analytical results from the 2022 Phase Two ESA. No further groundwater sampling activities are recommended at this time.

We trust this meets your needs at this time.

Regards,
GHD



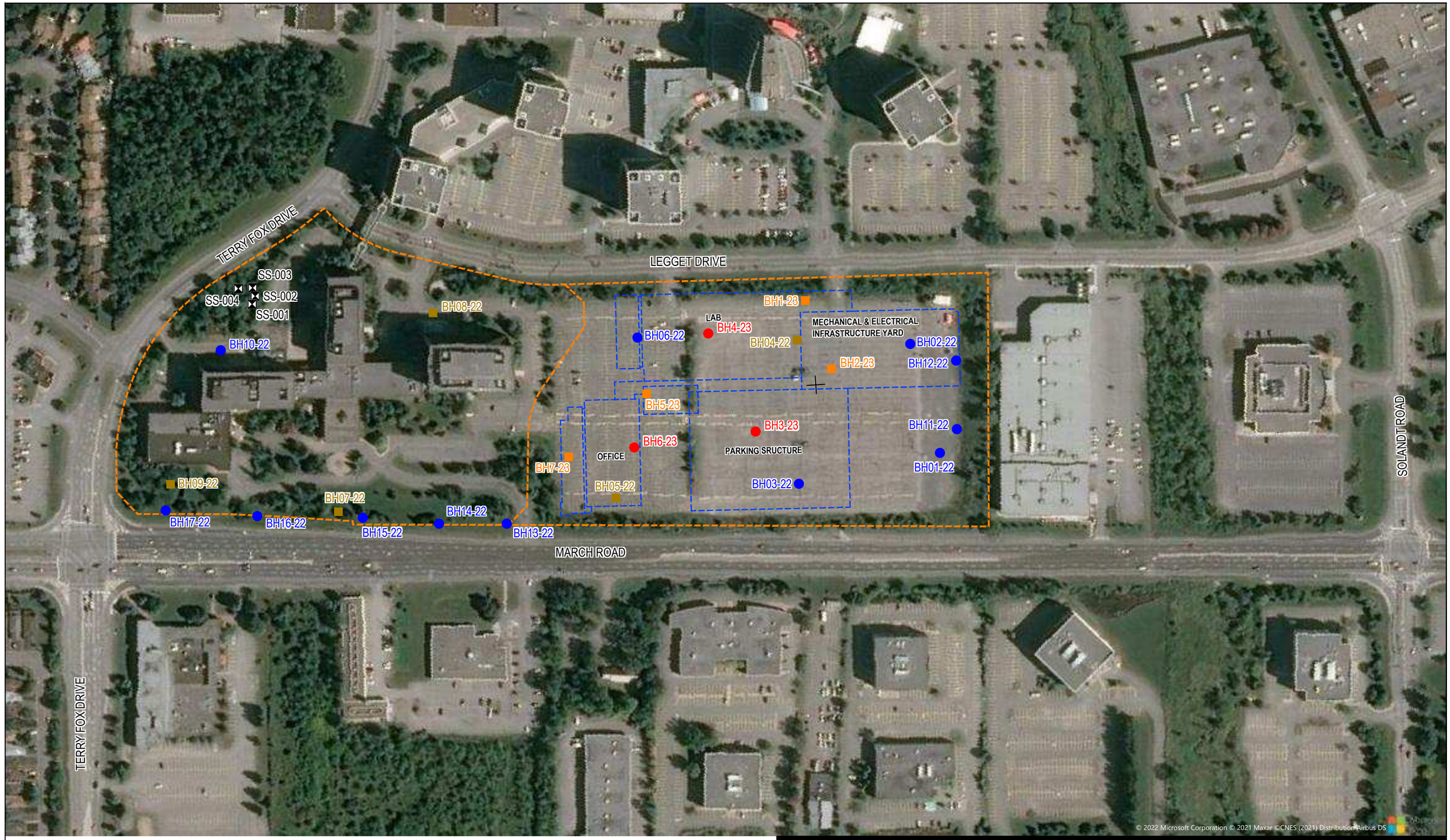
Kevin Emenau, P.Geo.



Warren Croft, P. Eng.

Encl

Figures



LEGEND

- PROPERTY BOUNDARY
- PROPOSED BUILDING OUTLINE
- SOIL SAMPLING LOCATION (GHD, 2022)
- BOREHOLE LOCATION (GHD, 2022)
- BOREHOLE LOCATION (GHD, 2023)
- MONITORING WELL (GHD, 2022)
- MONITORING WELL (GHD, 2023)

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum,
Zone 18, Meter;

GHD

NOKIA CANADA INC.
NOKIA PROPERTY REDEVELOPMENT
GROUNDWATER SAMPLING ACTIVITIES
600 MARCH ROAD, KANATA (OTTAWA), ON

BOREHOLE/WELL LOCATION PLAN

Project No. **12606873**
Date **May 2023**

FIGURE 1

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Plot Date: 12 May 2023 1:27 PM

Tables

Table 1

Summary of Groundwater Analysis
Groundwater Sampling Activities
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH03-22	BH06-22	BH11-22	BH12-22	BH3-23	BH3-23	BH4-23	BH6-23
Sample ID (GW-12606873-270423-DA-###):			-BH01-22	-BH02-22	-BH03-22	-BH06-22	-BH11-22	-BH12-22	-BH3-23	-DUP	-BH4-23	-BH6-23
Sample Date:			27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023
Sample Type:			Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**										
Physical Tests												
Conductivity	mS/cm	--	2.53	3.26	3.12	6.4	3.54	3.81	1.88	1.86	4.92	5.95
pH	-	--	7.88	7.57	7.93	8.04	7.71	7.71	8.16	8.14	7.81	7.74
Anions and Nutrients												
Chloride	ug/L	1800000	564000	695000	555000	1730000	895000	970000	187000	185000	1240000	1390000
Cyanides												
Cyanide	ug/L	52	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Metals												
Antimony	ug/L	16000	0.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Arsenic	ug/L	1500	0.2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	4.53	<1.00
Barium	ug/L	23000	200	185	74.8	65.3	246	226	52.2	43.6	59.1	66.7
Beryllium	ug/L	53	<0.020	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Boron	ug/L	36000	24	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium	ug/L	2.1	0.022	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Chromium	ug/L	640	<0.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	ug/L	52	<0.10	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Copper	ug/L	69	0.95	<2.00	2.31	7.16	<2.00	2.06	16	14.1	<2.00	8.14
Lead	ug/L	20	<0.050	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Mercury	ug/L	0.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	ug/L	7300	1.17	0.717	1.19	7.24	10.8	1.09	3.01	3.03	5.33	6.9
Nickel	ug/L	390	<0.50	<5.00	<5.00	<5.00	6.16	<5.00	11	10	<5.00	<5.00
Selenium	ug/L	50	0.447	<0.500	0.652	<0.500	<0.500	<0.500	0.797	0.846	<0.500	<0.500
Silver	ug/L	1.2	<0.010	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Sodium	ug/L	1800000	237000	342000	214000	967000	356000	390000	255000	227000	702000	854000
Thallium	ug/L	400	0.019	<0.100	<0.100	<0.100	<0.100	0.141	<0.100	<0.100	<0.100	<0.100
Uranium	ug/L	330	2.67	1.69	3.21	4.42	6.32	4.36	3.8	3.66	45.2	7.48
Vanadium	ug/L	200	<0.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Zinc	ug/L	890	3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Hexavalent Chromium	ug/L	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hydrocarbons												
F1 (C6-C10)	ug/L	420	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F1-BTEX	ug/L	420	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	ug/L	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F2-naphthalene	ug/L	--	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	ug/L	500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
F3-PAH	ug/L	--	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	ug/L	500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)	ug/L	--	<370	<370	<370	<370	<370	<370	<370	<370	<370	<370

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Table 1

Summary of Groundwater Analysis
Groundwater Sampling Activities
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH03-22	BH06-22	BH11-22	BH12-22	BH3-23	BH3-23	BH4-23	BH6-23
Sample ID (GW-12606873-270423-DA-###):			-BH01-22	-BH02-22	-BH03-22	-BH06-22	-BH11-22	-BH12-22	-BH3-23	-DUP	-BH4-23	-BH6-23
Sample Date:			27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023
Sample Type:			Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**										
Volatile Organic Compounds												
Acetone	ug/L	100000	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	ug/L	67000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	ug/L	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	ug/L	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	ug/L	2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.47
Dibromochloromethane	ug/L	65000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	ug/L	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	7600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	3500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis+trans-1,3-Dichloropropylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	ug/L	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexane (n)	ug/L	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone [MEK]	ug/L	21000	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone [MIBK]	ug/L	5200	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Methyl-Tert-Butyl Ether [MTBE]	ug/L	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	ug/L	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	ug/L	320	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	23	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m+p-Xylene	ug/L	--	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Total Xylenes	ug/L	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Table 1

Summary of Groundwater Analysis
Groundwater Sampling Activities
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH03-22	BH06-22	BH11-22	BH12-22	BH3-23	BH3-23	BH4-23	BH6-23
Sample ID (GW-12606873-270423-DA-###):			-BH01-22	-BH02-22	-BH03-22	-BH06-22	-BH11-22	-BH12-22	-BH3-23	-DUP	-BH4-23	-BH6-23
Sample Date:			27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023
Sample Type:			Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**										
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	ug/L	17	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Acenaphthylene	ug/L	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	ug/L	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	ug/L	1.8	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	ug/L	0.81	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	ug/L	0.75	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	ug/L	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	ug/L	0.4	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	ug/L	0.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	ug/L	0.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	ug/L	44	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluorene	ug/L	290	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Indeno(1,2,3-c,d)pyrene	ug/L	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1+2-Methylnaphthalene	ug/L	1500	<0.015	0.019	<0.015	0.015	<0.015	<0.015	<0.015	<0.015	0.017	<0.015
1-Methylnaphthalene	ug/L	1500	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2-Methylnaphthalene	ug/L	1500	<0.010	0.019	<0.010	0.015	0.013	0.012	<0.010	<0.010	0.017	0.013
Naphthalene	ug/L	7	<0.050	0.06	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	ug/L	380	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	ug/L	5.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Attachments

Attachment 1

Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

Work Order	: **WT2311250**	Page	: 1 of 29
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12606873-003.02	Date Samples Received	: 28-Apr-2023 08:25
PO	: 735-006550	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 05-May-2023 21:27
Sampler	: ----		
Site	: ----		
Quote number	: 12606873-003.02-SSOW-735-006550		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*

Analytical Results

WT2311250-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH02-22
Client sampling date / time: 27-Apr-2023 09:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.26	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.57	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	695 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	185 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	<2.00 DLHC	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	0.717 DLHC	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	342000 DLHC	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	1.69 DLHC	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH02-22
Client sampling date / time: 27-Apr-2023 09:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	74.1	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	83.7	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.4	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	97.1	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH02-22

Client sampling date / time: 27-Apr-2023 09:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	0.019	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.019	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	0.060	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	98.2	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22

Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.81	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.71	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	970 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	226 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22
Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	2.06 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	1.09 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	390000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	0.141 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	4.36 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22
Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.1	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	89.6	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089

Analytical Results

WT2311250-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22

Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.012	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	103	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH01-22

Client sampling date / time: 27-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	2.53	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.88	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	564 DLDS.	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	0.13	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	0.20	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	200	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	24	10	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	0.0220	0.0050	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<0.50	0.50	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<0.10	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	0.95	0.20	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	1.17	0.050	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<0.50	0.50	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.447	0.050	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	237000	50	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	0.019	0.010	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH01-22
Client sampling date / time: 27-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	2.67	0.010	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<0.50	0.50	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	3.0	1.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH01-22
Client sampling date / time: 27-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.9	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	93.3	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.4	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.8	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH11-22
Client sampling date / time: 27-Apr-2023 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.54	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.71	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	895 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	246 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	10.8 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	6.16 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	356000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	6.32 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH11-22
Client sampling date / time: 27-Apr-2023 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.3	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	93.2	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.1	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	97.0	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH11-22

Client sampling date / time: 27-Apr-2023 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.013	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	101	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	101	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22

Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.12	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.93	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	555 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	74.8 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22
Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	2.31 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	1.19 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.652 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	214000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	3.21 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22
Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.8	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	81.0	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089

Analytical Results

WT2311250-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22

Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	100	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	103	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH3-23

Client sampling date / time: 27-Apr-2023 15:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	1.88	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	8.16	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	187 DLDS.	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	52.2 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC.	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC.	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC.	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	16.0 DLHC.	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	3.01 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	11.0 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.797 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	255000 DLHC.	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH3-23
Client sampling date / time: 27-Apr-2023 15:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	3.80 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH3-23
Client sampling date / time: 27-Apr-2023 15:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.7	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.0	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	98.2	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	100	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-DUP
Client sampling date / time: 27-Apr-2023 15:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	1.86	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	8.14	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	185 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	43.6 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	14.1 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	3.03 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	10.0 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.846 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	227000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	3.66 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-DUP
Client sampling date / time: 27-Apr-2023 15:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	76.1	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	90.4	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.3	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.6	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-DUP

Client sampling date / time: 27-Apr-2023 15:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	100	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23

Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	4.92	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.81	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	1240 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	4.53 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	59.1 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-008

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23
Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	5.33 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	702000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	45.2 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-008

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23
Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	76.8	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	95.0	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.4	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.6	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089

Analytical Results

WT2311250-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23

Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	0.017	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.017	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	116	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH06-22

Client sampling date / time: 27-Apr-2023 18:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	6.40	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	8.04	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	1730 DLDS.	5.00	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	65.3 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC.	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC.	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC.	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	7.16 DLHC.	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	7.24 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	967000 DLHC.	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH06-22
Client sampling date / time: 27-Apr-2023 18:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	4.42 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC.	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP.	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP.	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP.	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH06-22
Client sampling date / time: 27-Apr-2023 18:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Vinyl chloride	75-01-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0 OWP.	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.9	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	95.1	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.3	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.5	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	99.5	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	101	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH6-23
Client sampling date / time: 27-Apr-2023 19:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	5.95	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.74	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	1390 DLDS,	5.00	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	66.7 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	8.14 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	6.90 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	854000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	7.48 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	1.47	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH6-23
Client sampling date / time: 27-Apr-2023 19:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.5	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	97.2	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.1	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.5	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH6-23

Client sampling date / time: 27-Apr-2023 19:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.013	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	113	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2311250**	Page	: 1 of 19
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12606873-003.02	Date Samples Received	: 28-Apr-2023 08:25
PO	: 735-006550	Issue Date	: 05-May-2023 21:27
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: 12606873-003.02-SSOW-735-006550		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH01-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH02-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH03-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH06-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH11-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH12-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH3-23	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH4-23	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH6-23	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-DUP	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH01-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH02-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH03-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH06-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH11-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH12-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH3-23	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH4-23	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH6-23	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-DUP	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH01-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH02-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH03-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH06-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH11-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH12-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH3-23	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH4-23	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH6-23	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-DUP	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH01-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH02-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH03-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH06-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH11-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH12-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH3-23	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH4-23	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH6-23	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-DUP	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH01-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH03-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH06-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH11-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH3-23	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH4-23	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH6-23	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-DUP	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH02-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH12-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12606873-270423-DA-BH01-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12606873-270423-DA-BH02-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH03-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH06-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH11-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH12-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH3-23	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH4-23	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH6-23	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-DUP	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH01-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH02-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH03-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH06-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH11-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH12-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH3-23	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH4-23	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH6-23	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-DUP	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH01-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH02-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH03-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH06-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH11-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH12-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH3-23	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH4-23	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH6-23	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12606873-270423-DA-DUP	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH01-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH02-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH03-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH06-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH11-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH12-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH3-23	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH4-23	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH6-23	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-DUP	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH01-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH02-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH03-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH06-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH11-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH12-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH3-23	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH4-23	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH6-23	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-DUP	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH01-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH03-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH06-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH11-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH3-23	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH4-23	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH6-23	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-DUP	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH02-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH12-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓
Conductivity in Water	E100	919322	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
pH by Meter	E108	919320	1	19	5.2	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓
Laboratory Control Samples (LCS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓
Conductivity in Water	E100	919322	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	918089	1	20	5.0	5.0	✓
pH by Meter	E108	919320	1	19	5.2	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	918090	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓
Method Blanks (MB)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓
Conductivity in Water	E100	919322	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	918089	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	918090	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Sample extracts are analyzed by GC-FID for CCME hydrocarbon fractions (F2-F4), as per the CCME Analytical Methods Guidance Manual (2016)

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs (Eastern Canada List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **WT2311250**	Page	: 1 of 14
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 12606873-003.02	Date Samples Received	: 28-Apr-2023 08:25
PO	: 735-006550	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 05-May-2023 21:27
Sampler	: ---- 519 725 3313		
Site	: ----		
Quote number	: 12606873-003.02-SSOW-735-006550		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 919320)											
WT2310984-003	Anonymous	pH	----	E108	0.10	pH units	8.26	8.28	0.242%	4%	----
Physical Tests (QC Lot: 919322)											
WT2311088-001	Anonymous	Conductivity	----	E100	1.0	µS/cm	2.73 mS/cm	2730	0.00%	10%	----
Anions and Nutrients (QC Lot: 919318)											
WT2310984-003	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	76.8	76.7	0.174%	20%	----
Cyanides (QC Lot: 920319)											
WT2310848-001	Anonymous	Cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 917817)											
WT2311250-001	GW-12606873-270423-DA-BH02-22	Antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00100	mg/L	185 µg/L	0.182	1.59%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.100	mg/L	<100 µg/L	<0.100	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	0.717 µg/L	0.000872	0.000154	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.500	mg/L	342000 µg/L	341	0.139%	20%	----
		Thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000100	mg/L	1.69 µg/L	0.00173	2.54%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 918531)											
WT2310848-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 917553)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Speciated Metals (QC Lot: 917553) - continued											
WT2311225-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 917951)											
WT2311250-001	GW-12606873-270423-DA-BH02-22	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 917951) - continued											
WT2311250-001	GW-12606873-270423-DA-BH02-22	Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 917952)											
WT2311250-001	GW-12606873-270423-DA-BH02-22	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 919322)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Anions and Nutrients (QCLot: 919318)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 920319)						
Cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 917817)						
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Dissolved Metals (QCLot: 918531)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 917553)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 917951)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued						
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued						
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 917952)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 918090)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 918089)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 919320)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 919322)									
Conductivity	----	E100	1	µS/cm	1409 µS/cm	102	90.0	110	----
Anions and Nutrients (QCLot: 919318)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 920319)									
Cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	99.2	80.0	120	----
Dissolved Metals (QCLot: 917817)									
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	100	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	104	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	95.6	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	93.0	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	99.3	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	96.5	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	95.9	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	95.7	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	101	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	98.4	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	96.9	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	96.9	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	91.0	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	98.7	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	103	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	98.5	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	98.9	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	97.9	80.0	120	----
Speciated Metals (QCLot: 917553)									

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Speciated Metals (QCLot: 917553) - continued									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	97.5	80.0	120	----
Volatile Organic Compounds (QCLot: 917951)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	103	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	90.2	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	110	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	98.7	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	97.9	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	99.5	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	91.8	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	93.3	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	94.7	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	97.4	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	97.1	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	104	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	97.3	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	98.6	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	101	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	101	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	97.8	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	99.5	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	96.5	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	92.0	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	96.7	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	99.0	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued									
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	99.2	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	96.7	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	97.0	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	100	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	109	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	102	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	99.7	70.0	130	----
Hydrocarbons (QCLot: 917952)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	112	80.0	120	----
Hydrocarbons (QCLot: 918090)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4613.474 µg/L	91.0	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6464.481 µg/L	91.7	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4040.361 µg/L	95.6	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 918089)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	85.0	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	89.8	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	91.9	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	99.6	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	92.4	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	85.0	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	118	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	87.0	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	99.6	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	102	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	95.7	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	91.8	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	82.6	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	81.3	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	81.3	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	91.5	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	95.7	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 919318)										
WT2310984-003	Anonymous	Chloride	16887-00-6	E235.Cl	97.3 mg/L	100 mg/L	97.3	75.0	125	----
Cyanides (QCLot: 920319)										
WT2310848-001	Anonymous	Cyanide, weak acid dissociable	----	E336	0.127 mg/L	0.125 mg/L	101	75.0	125	----
Dissolved Metals (QCLot: 917817)										
WT2311250-002	GW-12606873-270423-DA-BH12-22	Antimony, dissolved	7440-36-0	E421	0.471 mg/L	0.5 mg/L	94.2	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.511 mg/L	0.5 mg/L	102	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0477 mg/L	0.05 mg/L	95.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.449 mg/L	0.5 mg/L	89.9	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.0468 mg/L	0.05 mg/L	93.5	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.116 mg/L	0.125 mg/L	93.2	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.115 mg/L	0.125 mg/L	91.8	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.112 mg/L	0.125 mg/L	89.4	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.239 mg/L	0.25 mg/L	95.5	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.124 mg/L	0.125 mg/L	99.2	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.227 mg/L	0.25 mg/L	90.8	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.464 mg/L	0.5 mg/L	92.8	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.0427 mg/L	0.05 mg/L	85.4	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.484 mg/L	0.5 mg/L	96.8	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.0025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.242 mg/L	0.25 mg/L	97.0	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.232 mg/L	0.25 mg/L	93.0	70.0	130	----
Dissolved Metals (QCLot: 918531)										
WT2311250-001	GW-12606873-270423-DA-BH02-22	Mercury, dissolved	7439-97-6	E509	0.000102 mg/L	0.0001 mg/L	102	70.0	130	----
Speciated Metals (QCLot: 917553)										
WT2311225-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0396 mg/L	0.04 mg/L	98.9	70.0	130	----
Volatile Organic Compounds (QCLot: 917951)										

Sub-Matrix: **Water**

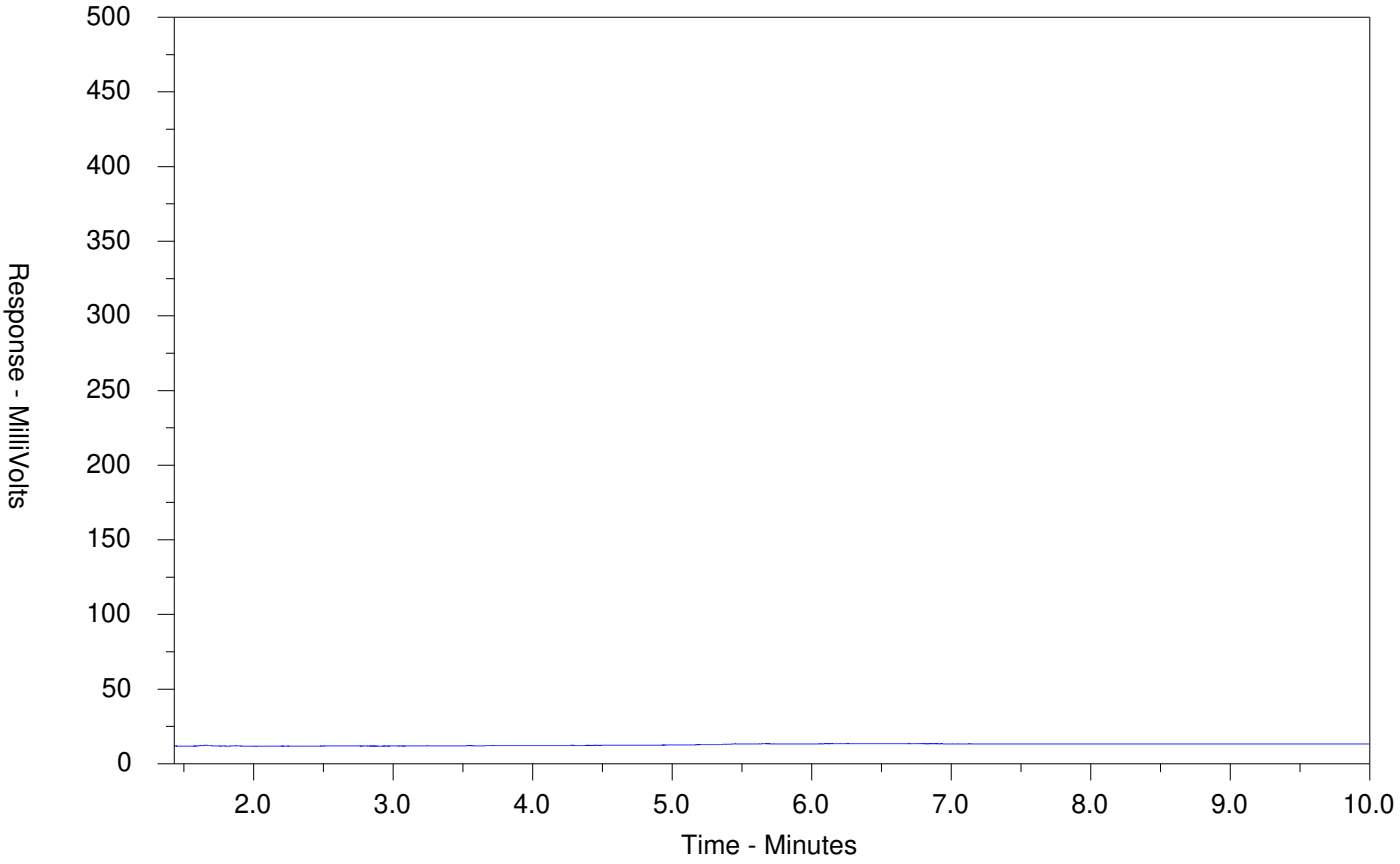
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued										
WT2311250-001	GW-12606873-270423-DA-BH02-22	Acetone	67-64-1	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Benzene	71-43-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Bromoform	75-25-2	E611D	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		Bromomethane	74-83-9	E611D	92.8 µg/L	100 µg/L	92.8	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Chlorobenzene	108-90-7	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Chloroform	67-66-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	61.1 µg/L	100 µg/L	61.1	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	92.4 µg/L	100 µg/L	92.4	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	99.1 µg/L	100 µg/L	99.1	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloromethane	75-09-2	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Ethylbenzene	100-41-4	E611D	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Hexane, n-	110-54-3	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	94 µg/L	100 µg/L	94.4	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Styrene	100-42-5	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	99.3 µg/L	100 µg/L	99.3	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	92.5 µg/L	100 µg/L	92.5	60.0	140	----
		Toluene	108-88-3	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	101 µg/L	100 µg/L	101	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued										
WT2311250-001	GW-12606873-270423-DA-BH02-22	Trichloroethylene	79-01-6	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	87.1 µg/L	100 µg/L	87.1	60.0	140	----
		Vinyl chloride	75-01-4	E611D	82.2 µg/L	100 µg/L	82.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	203 µg/L	200 µg/L	101	60.0	140	----
		Xylene, o-	95-47-6	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
Hydrocarbons (QCLot: 917952)										
WT2311250-001	GW-12606873-270423-DA-BH02-22	F1 (C6-C10)	----	E581.F1-L	1620 µg/L	2000 µg/L	81.2	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-001-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH02-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

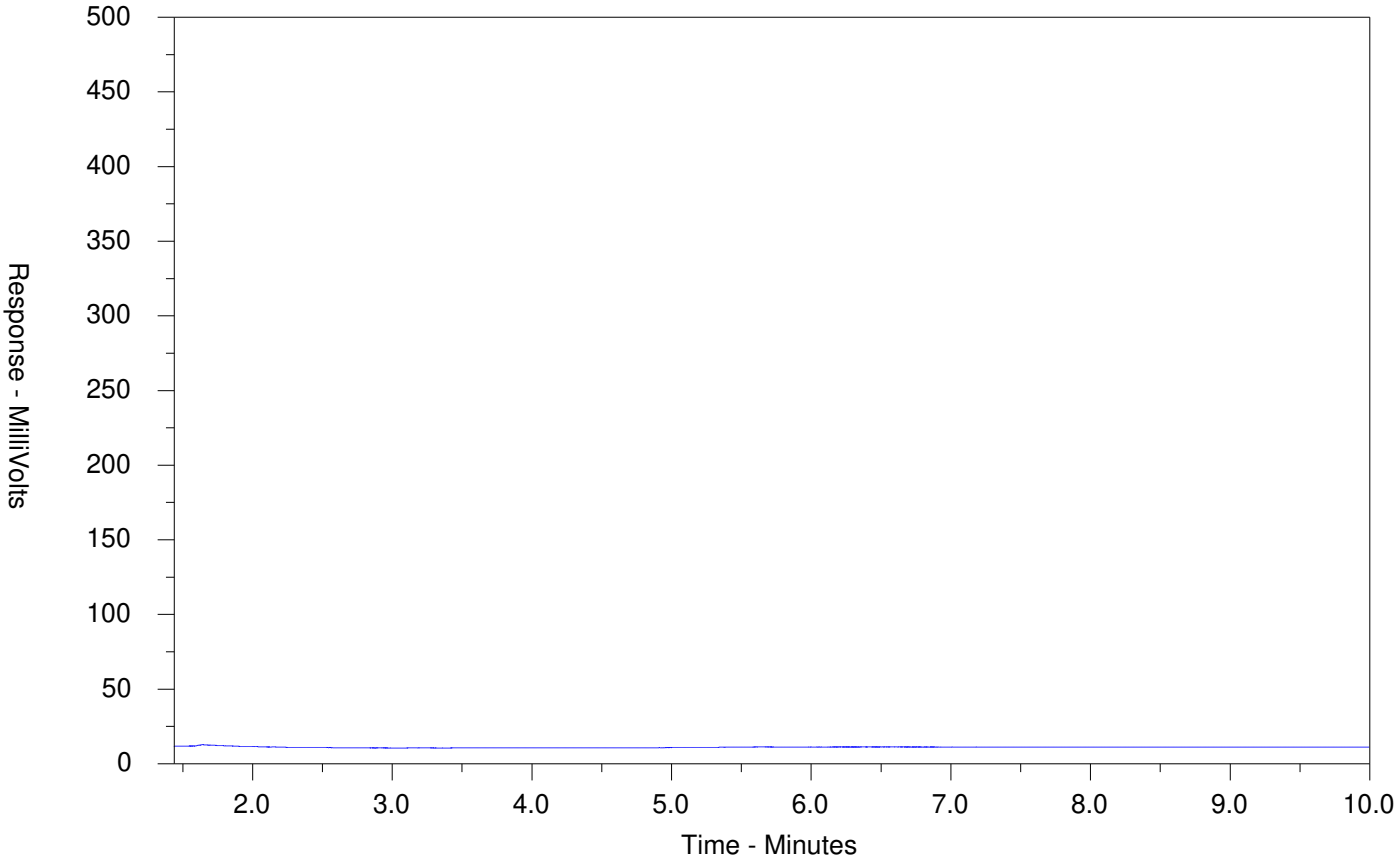
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-002-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH12-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

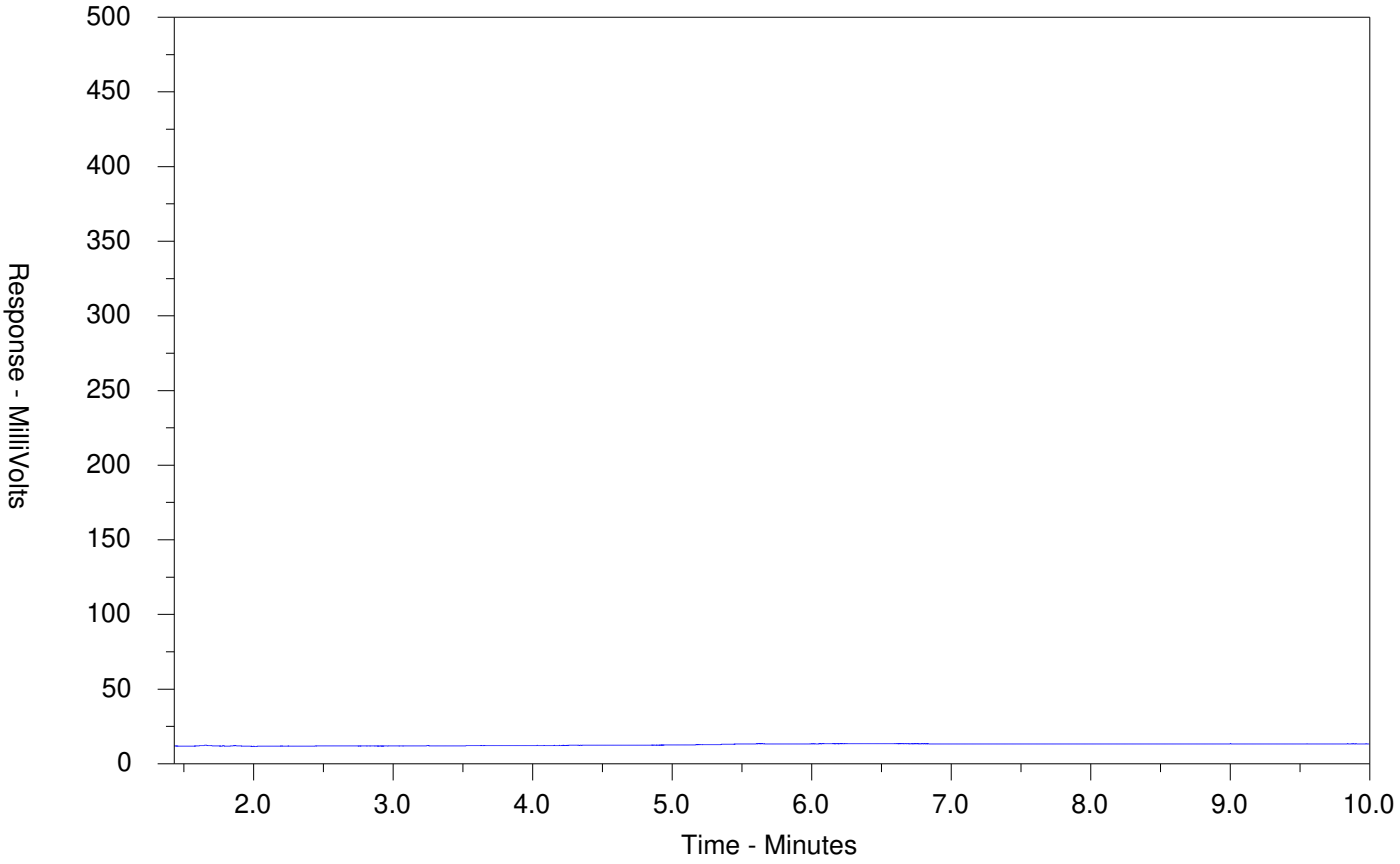
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-003-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH01-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

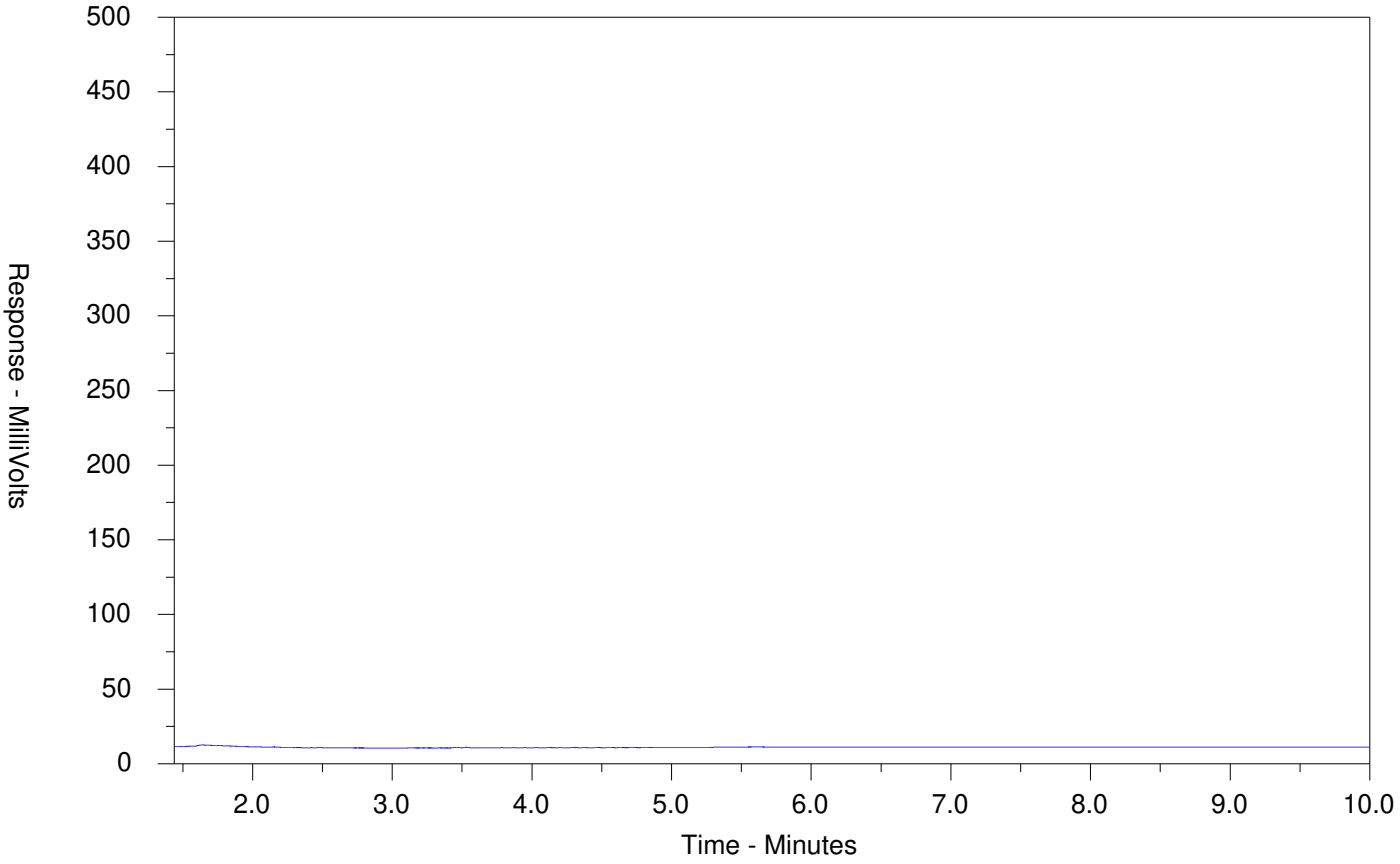
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-004-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH11-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

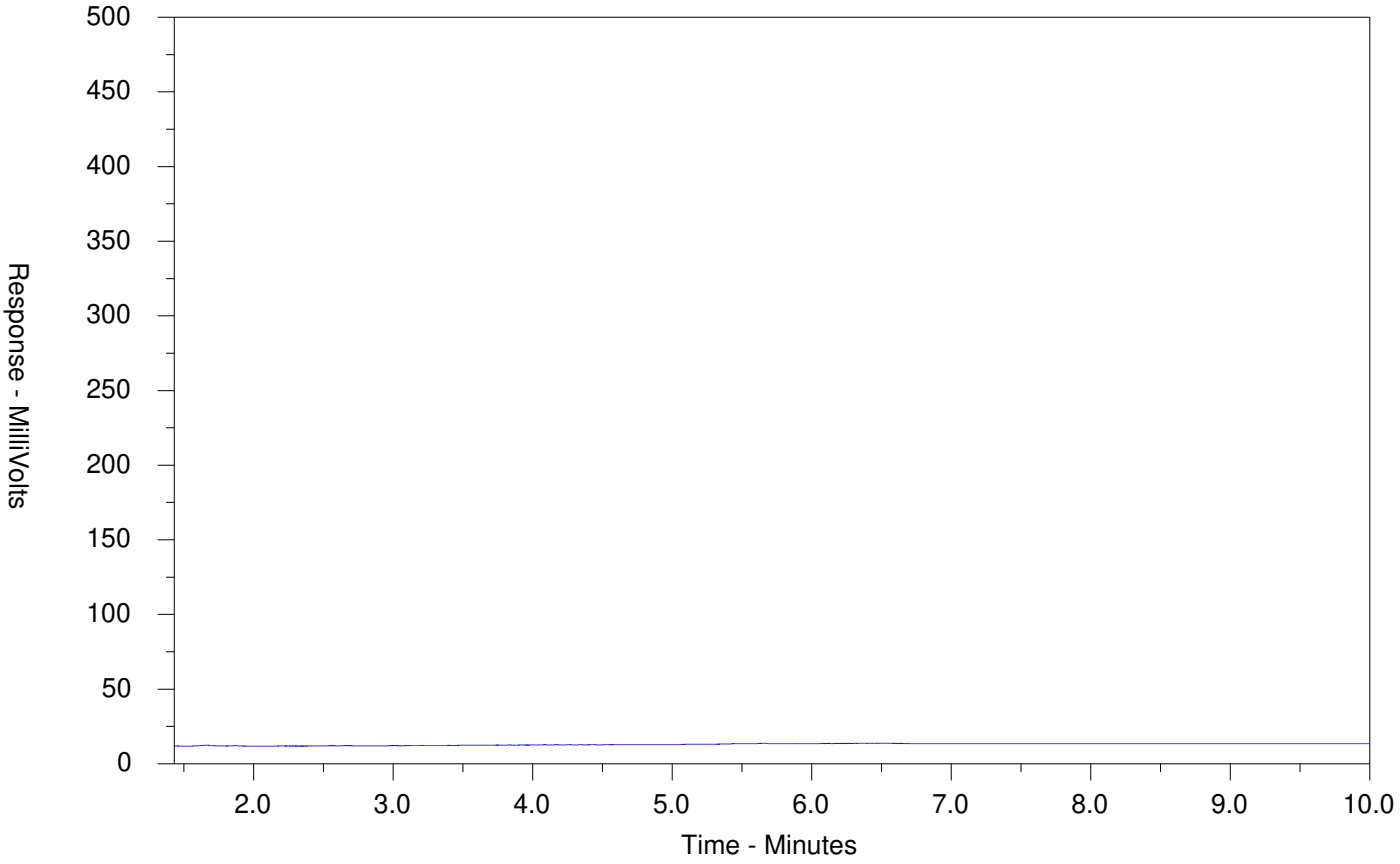
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-005-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH03-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

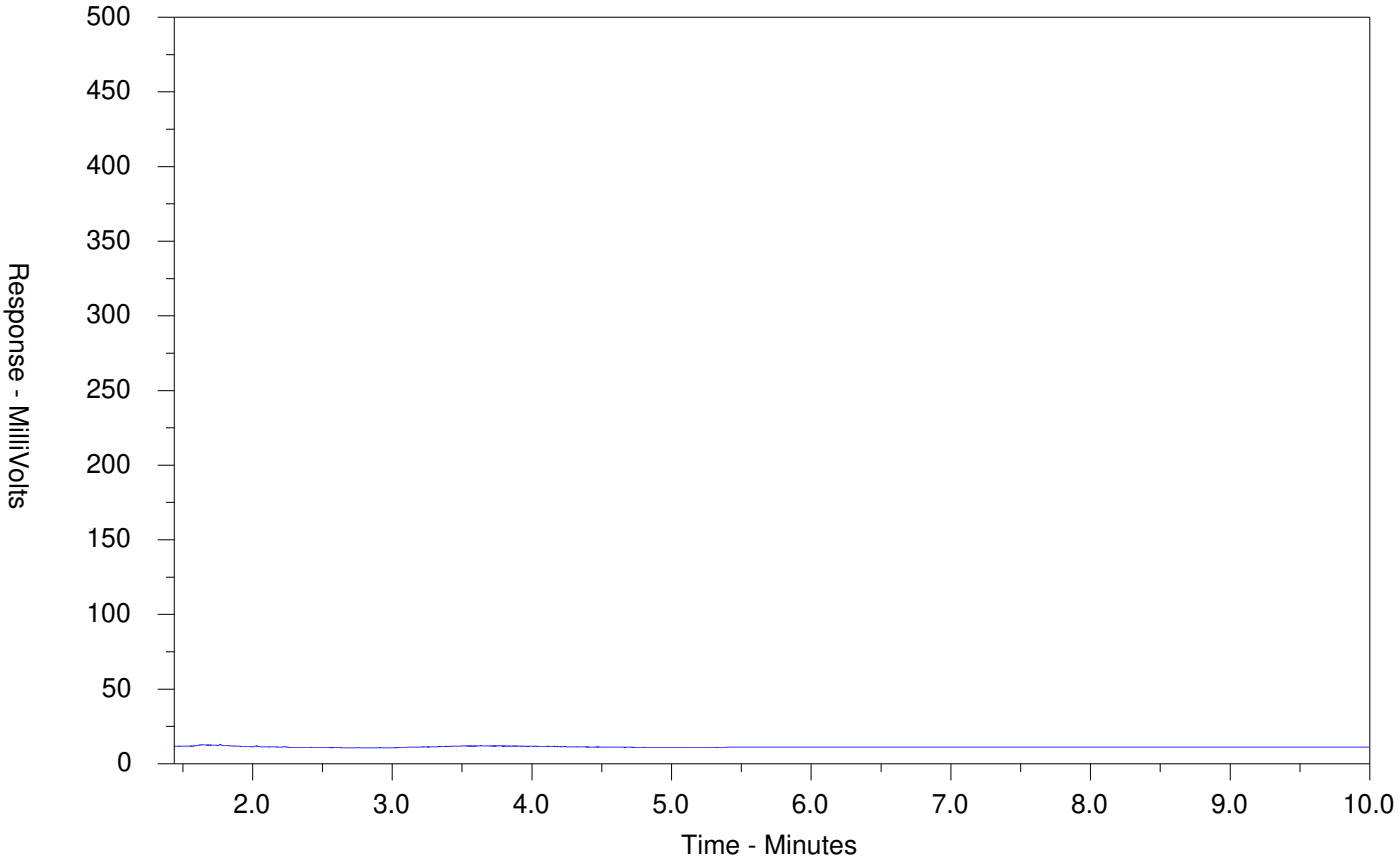
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-006-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH3-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

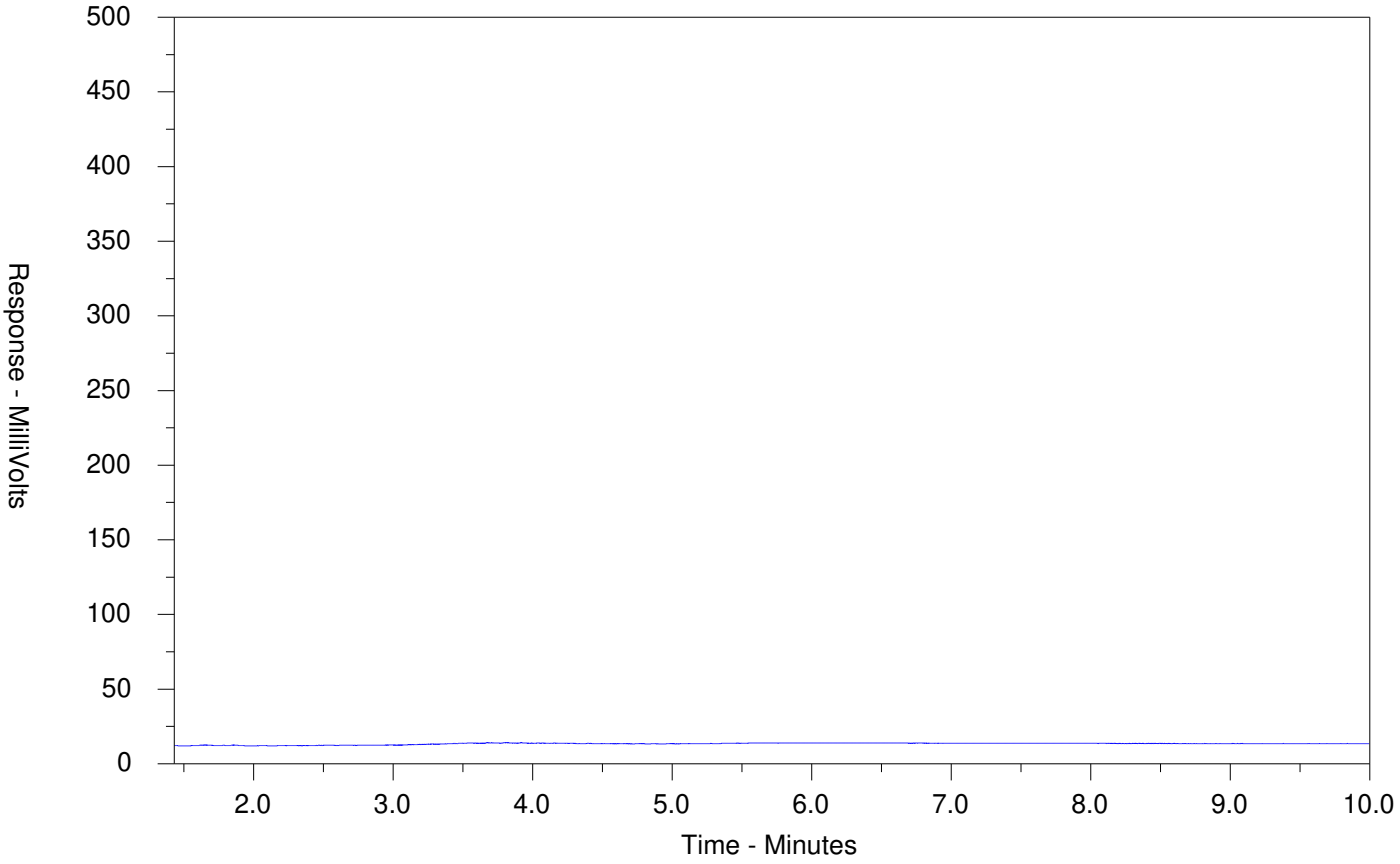
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-007-E601.SG
Client Sample ID: GW-12606873-270423-DA-DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

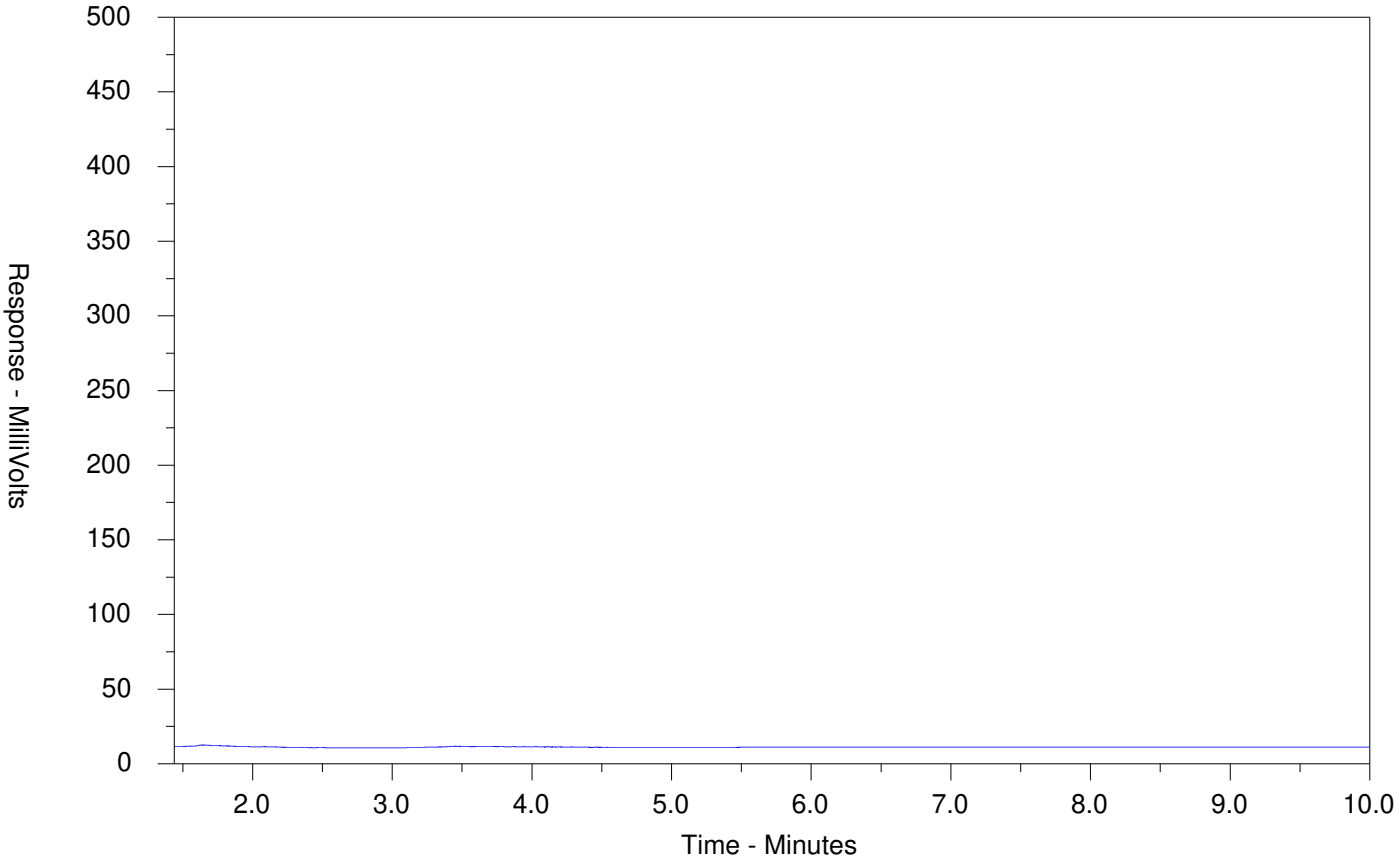
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-008-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

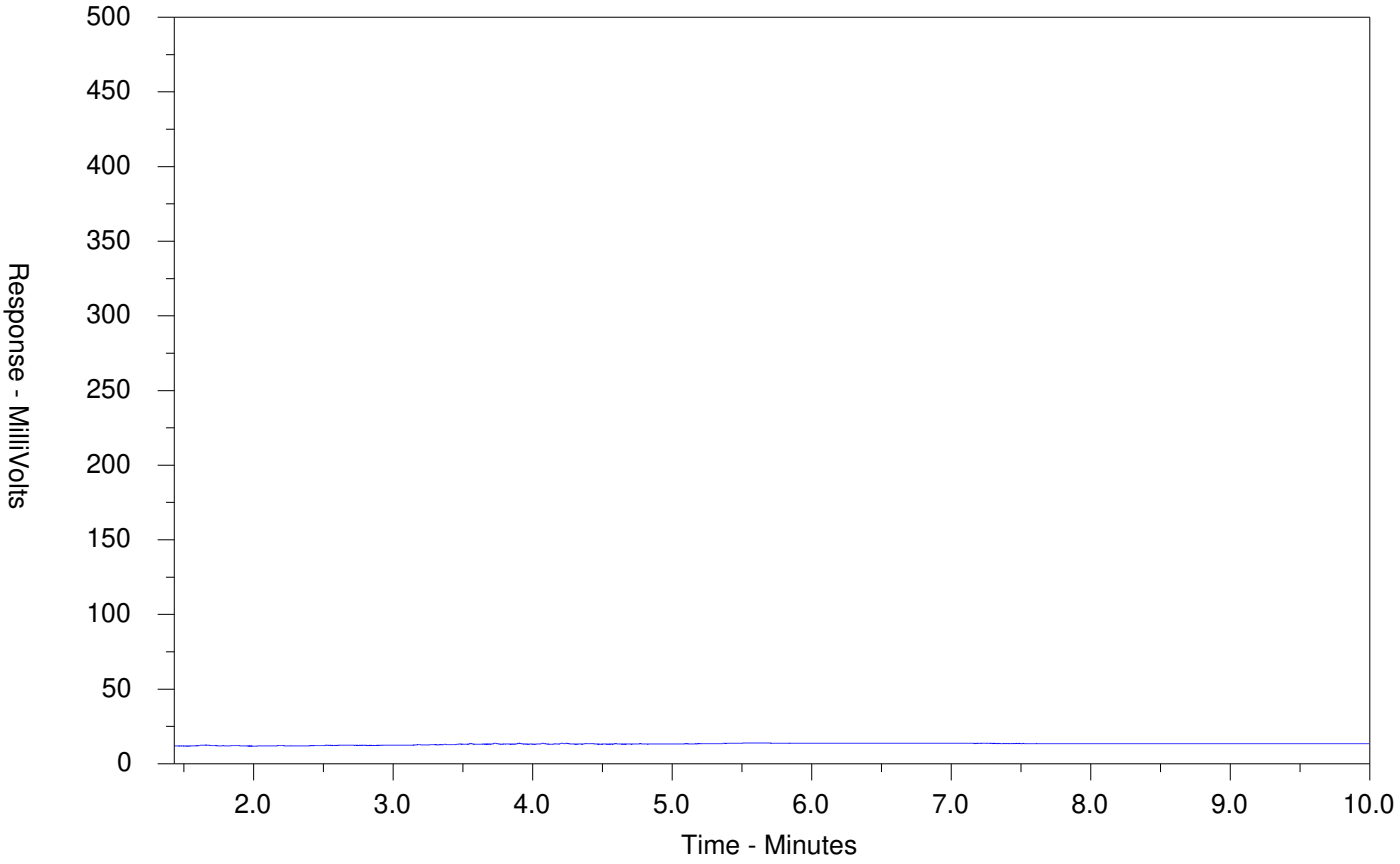
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-009-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH06-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

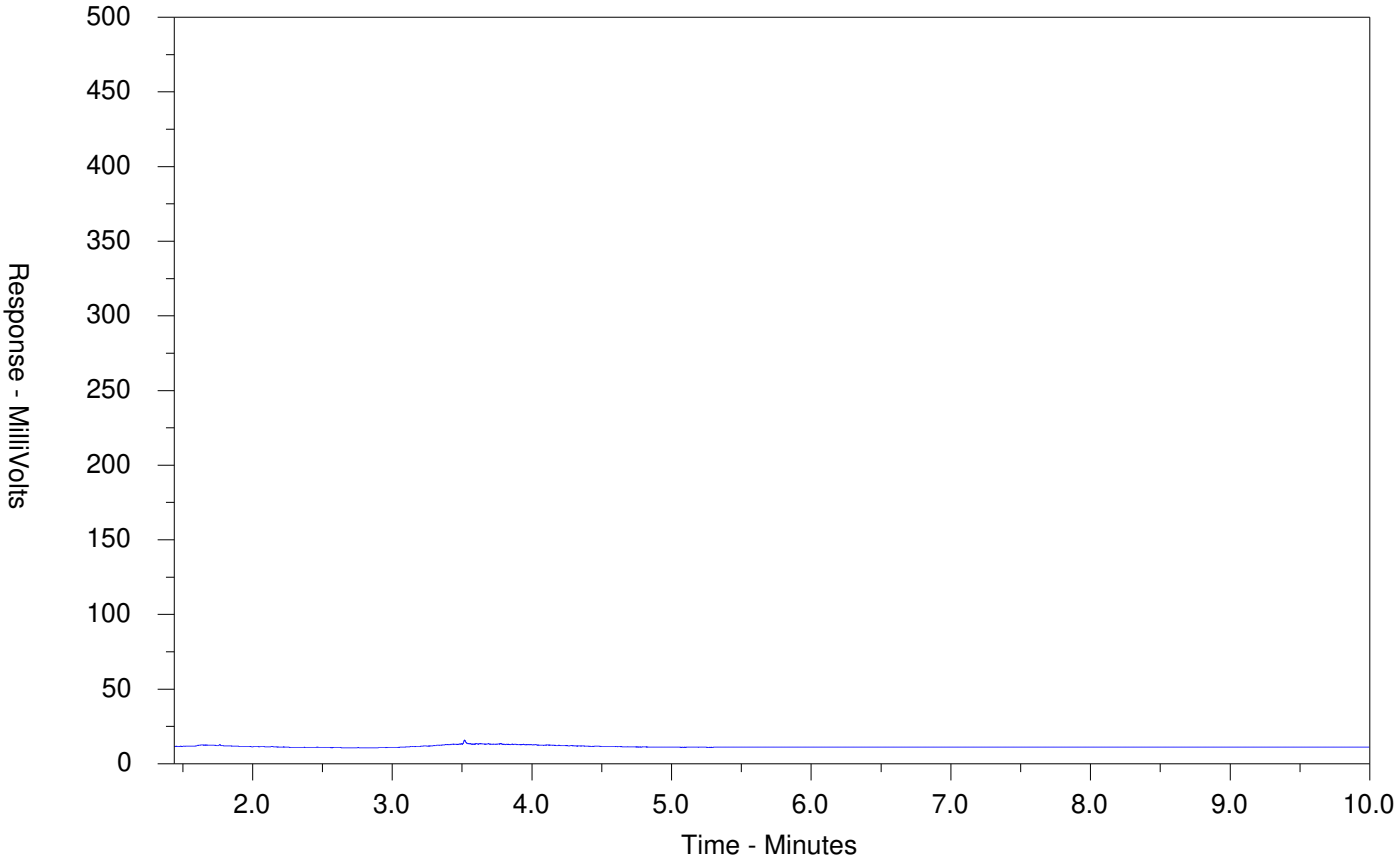
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-010-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH6-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

VN-020
OR-528
mm-884
GC-761
SC-299
CN-027

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo
Work Order Reference
WT2311250

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Add fees may apply to rush resuests on weekends, statutory holidays and n routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #: WT2023GHDL1000077
Job #: 12606873-003.02
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): WT2311250 FH
ALS Contact: Rick H
Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metals and Inorganics	VOC/PHC F1-F4 and PAHs	VOC, F1 - Trip Blank	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12606873-270423-DA-BH02-22	27-04-23	09:30	Water	4	X	X				
	GW-12606873-270423-DA-BH12-22		10:20	Water	4	X	X				
	GW-12606873-270423-DA-BH01-22		12:25	Water	4	X	X				
	GW-12606873-270423-DA-BH11-22		13:45	Water	4	X	X				
	GW-12606873-270423-DA-BH03-22		14:40	Water	4	X	X				
	GW-12606873-270423-DA-BH3-23		15:40	Water	4	X	X				
	GW-12606873-270423-DA-DUP		15:55	Water	4	X	X				
	GW-12606873-270423-DA-BH4-23		17:10	Water	4	X	X				
	GW-12606873-270423-DA-BH06-22		18:10	Water	4	X	X				
	GW-12606873-270423-DA-BH6-23		19:00	Water	4	X	X				
	Trip Blank DA			Water	2	X	X				

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?
☐ YES ☑ NO
Are samples for human consumption/ use?
☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

2 coolers submitted, Trip Blank not provided.

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.3°C				10.1			

SHIPMENT RELEASE (client use)

Released by: Daithan Ash Date: April 27, 2023 Time: 20:10

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Eric Dobbs Date: 28/04/23 Time: 8:25

FINAL SHIPMENT RECEPTION (lab use only)

Received by: A Date: 1-MAY-23 Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Attachment 2

Data Quality Assessment and Verification

Technical Memorandum

May 12, 2023

To	Joseph Drader	**Tel**	514-339-0152
Copy to	Rehoboth Mubedi	**Email**	alexandre.lemire@ghd.com
From	Alexandre Lemire/an/01	**Ref. No.**	12606873-003.02
Subject	Data Quality Assessment and Verification Groundwater Sampling 570 March Road, Kanata First Gulf Corp		

Laboratory:	ALS Canada Ltd.
Lab Job No.:	WT2311250
Date(s) Sampled:	April 2023
Media Sampled:	Groundwater

QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
Holding Times	Analyte specific	☒	☐	☐	☐
Temperature	<10ºC at receipt	☒	☐	☐	☐
Sample Preservation	Required container/preservatives	☒	☐	☐	☐
Field Duplicate (blind)	Within 50%/<1xRL (water)	☒	☐	☐	☐
Field Blank (blind)	Non detect	☐	☐	☐	☒
Trip Blank	Non detect	☐	☐	☐	☒
Lab QA/QC	Within standard recoveries	☒	☐	☐	☐

Conclusion:

Based on the assessment detailed in the foregoing, the data summarized are acceptable without qualification.

Notes:

N/A - Not Applicable

QA/QC - Quality Assurance/Quality Control

Data verification reference documents:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, September 2016.
2. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, September 2016.

3. "British Columbia Environmental Laboratory Manual", Analysis, Reporting & Knowledge Services Knowledge Management Branch Ministry of Environment and Climate Change Strategy Province of British Columbia, April 2020.
4. "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", Laboratory Services Branch, Ministry of the Environment, March 9, 2004, amended as of July 1, 2011.

Regards



Alexandre Lemire
Project chemist

Phase One Environmental Site Assessment

600 March Road, Kanata (Ottawa), Ontario

Nokia Canada Inc.

September 5, 2024



Author:

Joseph Drader, P. Eng.

Warren Croft, P. Eng.



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Document title	Phase One Environmental Site Assessment | 600 March Road, Kanata (Ottawa), Ontario						
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			Name	**Signature**	**Name**	**Signature**	**Date**
S3	00	E.Stewart, J.Drader	Warren Croft, P.Eng.		Joseph Drader, P. Eng.		Aug 29, 2024
Final		E.Stewart, J.Drader	Warren Croft, P.Eng.		Joseph Drader, P. Eng.		Sept 05, 2024

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1. Executive Summary

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the parking lot property that is currently part of the overall Nokia property (Overall Nokia Property) located at 600 March Road in Kanata (Ottawa), Ontario; the parking lot property will be hereinafter referred to as the Site or Phase One Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 hectares (ha) in size and currently consists of surface level car parking and landscaped areas. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes. The Site is currently owned by Nokia.

The Phase One ESA was conducted in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 – Record of Site Condition (O. Reg. 153/04), as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in O. Reg. 153/04. Previous environmental reports have been prepared for the Site, which are attached as an Appendix to this report.

It is GHD's understanding that Nokia intends develop the Phase One Property with a new office complex including new high-rise office and retail building, six-storey lab building, and four storey-parking garage, all with associated underground parking. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The preparation and submission a Record of Site Condition (RSC) to the Ontario Ministry of Environment, Conservation, and Parks (MECP) in accordance with O. Reg. 153/04, is not required at this time since the property usage is remaining the same (commercial/industrial).

The Phase One ESA was conducted by Mr. Joseph Drader and was reviewed by Mr. Warren Croft, both of GHD. Mr. Drader and Mr. Croft are Qualified Persons as defined with O. Reg. 153/04. The qualifications of Mr. Drader and Mr. Croft are presented in **Appendix A**.

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, previous environmental reports, and the review of Site history, no APECs were identified to be associated with the Site.

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is not required to characterize soil and groundwater quality at the Phase One Property.

2. Introduction

2.1 Phase One ESA Property Information

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the parking lot property that is currently part of the overall Nokia property (Overall Nokia Property) located at 600 March Road in Kanata (Ottawa), Ontario; the parking lot property will be hereinafter referred to as the Site or Phase One Property. A Site Location Map and a Site Plan are provided on **Figure 1** and **Figure 2**, respectively.

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 ha in size and currently consists of surface level car parking and landscaped areas. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

A legal survey of the Overall Nokia Property is provided in the 2022 Phase One ESA report (refer Section 4.1.6 and **Appendix B**). The Site contains two parcels with the following property identification numbers (PINs) and descriptions:

– 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
– 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

The Site is currently owned by Nokia Canada Inc., and it is understood the Nokia is looking to improve its existing campus, including new high-rise office and retail building, six-storey lab building, and four storey-parking garage, all with associated underground parking. Contact information for Nokia representative is listed below:

Margaret Wolodarkski, Program Manager, Ottawa Innovation Campus
Nokia Canada Inc.
600 March Road
Ottawa, Ontario K2K 2T6

Phone: (613) 843-0660
Email: margaret.wolodarski@nokia.com

3. Scope of Investigation

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04 – Record of Site Condition, as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any PCAs and APECs associated with the Site. PCAs and APECs are defined in O. Reg. 153/04.

It is GHD's understanding that Nokia intends to develop the Phase One Property with a new office complex as noted in Section 2. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The preparation and submission of an RSC to the Ontario MECP in accordance with O. Reg. 153/04 is not required at this time since the property usage is remaining the same (commercial/industrial).

The following tasks were conducted as part of the Phase One ESA:

– Review of an electronic environmental database search of federal, provincial, and private source databases.
– Review of Phase One Property title records.
– Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, regional geological information, and previous environmental reports.
– Review of past and current Phase One Property usage and adjacent property occupancy.
– Examination of the facilities, equipment, utility services, operations, and associated records for the Site.
– Observations of any conditions that represented potential environmental concerns.
– Review of chemical use and storage, and spill/release incidents.
– Review of aboveground and underground storage tank records.
– Review of waste handling, accumulation, storage, and disposal practices.
– Review of air emissions and wastewater discharges.
– Review of equipment that potentially contains chlorofluorocarbons.
– Review of equipment that potentially contains polychlorinated biphenyls.
– Observations of potential lead-based paint.
– Observations of potential asbestos-containing materials.
– Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs and APECs associated with the Site. PCAs and APECs are defined in O. Reg. 153/04. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows.

3.1 Limitations

This report has been prepared by GHD for Nokia and may only be used and relied on by Nokia for the purpose agreed between GHD and Client (Nokia).

GHD otherwise disclaims responsibility to any person other than the Client arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

4. Records Review

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Study Area included all properties located wholly or partially within 250 metres (m) of the boundary of the Site, as required by O. Reg. 153/04. This area has been determined by GHD to be a sufficient study area since PCAs and/or APECs located beyond 250 m from the Site will not likely adversely impact the Property.

The adjacent and surrounding properties within the Phase One Study Area were visually inspected from the Site and/or nearby streets, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the surrounding properties within the Phase One Study Area that were visible from applicable streets.

Along with various residential, commercial, and vacant properties located within the Phase One Study Area, a couple business park areas (known as the Kanata Research Park and Kanata North Technology Park) were identified. Although various potential technology and/or research manufacturing may be conducted on the interior of these buildings/properties, the exterior of many of the buildings/properties appeared to be operated solely as offices with no apparent manufacturing being conducted based on GHD's visual inspection, unless as noted below.

Information regarding adjacent/surrounding properties within the Phase One Study Area are noted below:

North

The Site is bound to the north by the current Nokia Office Complex (construction of parking lot observed west and south of the buildings), beyond which is Legget Drive and Terry Fox Drive and the following properties:

– Office buildings at 555 Legget Drive (multiple businesses).
– Wooded area beyond Terry Fox Drive.

– Office building at 359 Terry Fox Drive (multiple businesses).
– Office building at 362 Terry Fox Drive (B.J. Kane Electric Ltd [commercial and industrial electrical services]) beyond Terry Fox Drive.

East

The Site is bound to the east by Legget Drive, beyond which are the following properties (north to south):

– Office building at 535 Legget Drive (multiple businesses).
– Brookstreet Hotel and Conference Center at 525 Legget Drive, beyond which is a golf course and stormwater ponds.
– Office building at 515 Legget Drive (multiple businesses).
– Office building at 425 Legget Drive (Renaissance).

South

The Site is bound to the south by the following properties:

– Office and possible manufacturing (Sanmina Corporation – Optical, RF/Microwave products) property at 500 March Road (adjacent).
– Vacant, wooded property with evidence of a creek running through it at 490 March Road.
– Office building at 3001 Solandt Road (nanometrics [electronics services]).
– Office building at 40 Hines Road (Trend Micro [cybersecurity]; across March Road to the southwest).
– Office building at 495 March Road (multiple businesses; across March Road to the southwest).

West

The Site is bound to the west by March Road, beyond which are the following properties (north to south):

– Office buildings at 603 March Road and 375 Terry Fox Drive (Renesas [microcontrollers, analog and power devices] and TalentLab [IT Recruiters]).
– Vacant, wooded property.
– Commercial strip mall property at 591 March Road; includes following businesses: insurance, veterinary hospital, restaurants, pet grooming and supplies, spa.
– Power Muscle & Fitness (Gym) property at 555 March Road.
– Commercial property (insurance company and medicine wellness centre) at 525 March Road.
– Office building at 88 Hines Road (Telemus [electric warfare systems] and CCI Antennas [wireless equipment]).
– Office buildings at 80 and 84 Hines Road (multiple businesses at both buildings).
– Royal Canadian Legion at 70 Hines Road.
– Office buildings at 505 March Road and 50 Hines Road (multiple businesses at both buildings).

Based on GHD's observations during the Site inspection, the operations of the Nokia Office Complex on the adjacent property to the north and the Sanmina Corporation on the adjacent property to the south at 500 March Road are identified as PCAs (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on GHD’s Phase Two ESA report of the Nokia property (dated July 19, 2022) and GHD’s Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site near the adjacent properties to the north and south were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the Nokia and Sanmina operations were not identified as having the potential to contribute to an APEC at the Site.

4.1.2 First Developed Use Determination

Based on GHD's review of historical documents and information gathered from Site interviews, the Site was vacant and/or used for agricultural purposes between 1930 and 1991. Between 1991 and 1999, a surface level parking lot was constructed on the Site associated with the office buildings located on the adjacent property to the north.

4.1.3 Fire Insurance Plans

Fire insurance plans assist in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements, and facility operations. No coverage for the Site and adjacent lands were found on existing fire insurance plans.

4.1.4 Chain of Title

GHD was provided chain of title search documentation for the Overall Nokia Property as reported in GHD's Phase One ESA report (dated April 20, 2022; refer to Section 4.1.6). Title search documents go back to 1988 which is an acceptable time period based on review of aerial photographs (refer to Section 4.3.1) and the Phase One Property having not been developed till after 1991. The results of the title search and deviations in ownership of the Site are summarized below.

	Year	Property Ownership
04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.		
	November 1994 to January 2022 (date of search)	Newbridge Networks Corporation Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Kanata Research Park Corporation
04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.		
	May 1996 to January 2022 (date of search)	Newbridge Networks Corporation (transfer from Minto Developments Inc.) Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Kanata Research Park Corporation

No PCAs or APECs were identified based on available chain of title information.

4.1.5 Historical City Directories

Historical city directories generally document the occupants of municipal addresses on a yearly basis. Based on GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did contract Environmental Risk Information Services Ltd. (ERIS) to conduct a search of available city directory information in their databases. It should be noted that a new search was not completed for this Phase One ESA, since subsequent city directories beyond 2011 are not available. A summary of the available Phase One ESA Study Area addresses and businesses listed as provided by ERIS is noted below:

– 600 March Road (Nokia site) was listed as Alcatel-Lucent in 2011, Alcatel Networks in 2001/02, and Newbridge Networks in 1996/1997 and 1992. Not listed in 2005/06.
– 555 March Road (west, across March Road) | Goodlife Fitness in 2011.
– 591 March Road (west, across March Road) | Royal Lepage (2011, 2005/06, 2001/02, 1996/97), Wine Craft (2011, 2001/02, 1996/97), Vet Hospital (2011, 2001/02, 1996/97, 1992), Bombay Masala (2011), Co-Operators (2011), Island Tanning (2001/02), Ashoka Indian Cuisine (2001/02), Appliance Experts (1996/97, 1992), Market Place (1996/97), Marchview Dry Cleaners (1996/97), Technology Brokers (1992), Bytes Donuts (1992).

– 603 March Road (west, across March Road) | Blair Networks in 2011. Not listed in 2005/06. Tundra Semi Conductor in 2001/02. Newbridge Networks in 1996/97 and 1992.
– 70 Hines Road (west, across March Road) | Canadian Legion in 2011 and 2005/06. PCL Constructors in 2001/02).
– 84 Hines Road (west, across March Road) | Certicom Corp (2011 and 2005/06), Irdeto Canada (2011), Sidense Corp (2011), Ashton Electronic Systems (2011), Arrow Electronics (2011), Psion Teklogix (2011), Metconnex Inc (2005/06), Colonnade Developments (2005/06), Taral Networks (2005/06), Telewatch Monitoring (2005/06), Cloakware Corp (2005/06), Sitecast Construction (2001/02).
– 88 Hines Road (west, across March Road) | Flexus Electronics (2011, 2005/06, 2001/02), Wescar Corp (2005/06), Telemus Inc. (2005/06, 2001/02), Arrow Electronics (2001/02).
– 95 Hines Road (west, across March Road and Hines Road) | Wescar Corp (2011, 2005/06, 2001/02, 1996/97), Value Added Solutions (2005/06, 2001/02), Omega Telemus (1996/97), I-Stat Canada (1996/1997).

Based on review of above city directory entries, the operation of a dry cleaners at 591 March Road (Marchview Dry Cleaners; 1996/97 directory) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04. However, based on GHD's Phase Two ESA report of the Overall Nokia Property (dated July 19, 2022) and GHD's Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site near the adjacent property to the west were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the dry-cleaning operations were not identified as having the potential to contribute to an APEC at the Site.

4.1.6 Environmental Reports

GHD previously completed the following environmental documents for the Site or Overall Nokia Property:

– Phase One Environmental Site Assessment (Report), 600 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated April 20, 2022
– Phase Two Environmental Site Assessment (Report), 600 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated July 19, 2022
– Groundwater Sampling Activities (Letter), Nokia Property Redevelopment, 600 March Road, Kanata (Ottawa), Ontario, completed by GHD for Nokia Canada Inc., dated August 12, 2024

GHD reviewed and summarized these documents below for this Phase One ESA.

GHD Phase One Environmental Site Assessment (Overall Nokia Property) (April 20, 2022)

GHD was retained by Nokia to conduct a Phase One ESA of the Overall Nokia Property located at 600 March Road in Kanata (Ottawa), Ontario. The Nokia property is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 square metres [m^2] of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas. The Nokia property is currently owned by Nokia and is used for office and research/development activities. Prior to the current development, the property was vacant and/or used for agricultural purposes.

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04, as amended. It was GHD's understanding that Nokia intended to amend the zoning of the property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the site.

Based on the results of the Phase One ESA, including the site inspection, information provided by site representatives and regulatory agencies, documents reviewed, and the review of site history, the following APECs were identified to be associated with the larger Nokia property.

1. ***Adjacent Manufacturing Operations |*** *Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as APEC #1.*
2. ***Surrounding Dry-Cleaning Operations |*** *The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as APEC #2.*
3. ***Surrounding Historic Landfill |*** *The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 kilometres [km] from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as APEC #3.*
4. ***Surrounding Manufacturing Operations |*** *Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as APEC #4.*
5. ***Site Diesel Generator/Tank Operations |*** *Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as APEC #5.*

Based on the information obtained in completing this Phase One ESA, it was GHD's opinion that a Phase Two ESA was required to characterize soil and groundwater quality at the Phase One Property before an RSC can be filled with the MECP. The Phase Two ESA should evaluate the presence or absence of soil or groundwater impact to the site from all identified APECs.

GHD reviewed the results of the previous Phase One ESA relative to the boundaries of the current Phase One ESA Property boundaries (southern parking lot area). Based on the review, each of the PCAs identified above were located on off-Site properties and were not located on the current Phase One ESA Property.

GHD Phase Two Environmental Site Assessment (Overall Nokia Property) (July 19, 2022)

GHD was retained by Nokia to conduct a Phase Two ESA of the Overall Nokia Property located at 600 March Road in Kanata (Ottawa), Ontario. The Phase Two ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the site.

The Phase Two ESA was recommended based on the APECs identified in the GHD Phase One ESA (April 20, 2022), in order to assess the soil and groundwater quality at the site. The Phase Two ESA field activities were completed in May 2022, and included the advancement of boreholes into the overburden and bedrock stratigraphy, installation of overburden and bedrock monitoring wells, soil field screening and groundwater monitoring, and the collection and laboratory analysis of soil and groundwater samples for testing of contaminants of potential concern (CPCs) based upon visual and olfactory observations. CPCs included metals and inorganic compounds, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), and/or general chemistry parameters.

A summary of the analytical results of the soil and groundwater quality are presented below:

- **Soil Quality |** Based on a review of the soil analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards. No associated impacts were noted for APEC #5 (Diesel Generator/Tank Operations).
- **Groundwater Quality |** Based on a review of the groundwater analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Overall Nokia Property), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry-Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Diesel Generator/Tank Operations).
- There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs. GHD recommended that monitoring wells (including the wells deemed dry during the May 2022 investigation) in the northern half of the Nokia property be resampled during future residential planning and when applying for a Record of Site Condition with the MECP. This recommendation is to ensure groundwater monitoring and quality data are up to date.

GHD Groundwater Sampling Activities Letter (August 12, 2024)

GHD conducted groundwater sampling activities at the site on April 27, 2023, to determine current groundwater conditions as part of Nokia's due diligence and future municipal planning approval purposes. Groundwater sampling was conducted at six existing groundwater monitoring wells installed in 2022 (BH01-22, BH02-22, BH03-22, BH06-22, BH11-22, and BH12-22) and three new monitoring wells installed in 2023 (BH3-23, BH4-23, and BH6-23). These well locations are presented on **Figure 2**.

Based on the site conditions and the definition of area of natural significance provided in O. Reg. 153/04, the groundwater analytical results on the site were assessed to the MECP Table 7: Full Depth Generic Site Conditions Standards for Shallow Soils in a Non-Potable Ground Water Condition (MECP Table 7 Standard). Based on GHD's review, all parameters were reported below MECP Table 7 Standards for the groundwater samples collected on April 27, 2023. These results are similar to the groundwater analytical results from the 2022 Phase Two ESA. GHD reported that no further groundwater sampling activities are recommended at this time.

Mapping and Assessment of Former Industrial Sites, City of Ottawa

GHD did a review of the report titled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" by Interra Technologies Ltd, dated July 1988, which provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa as of July 1988. Based on GHD's review, there is no coverage of the Site provided in this report.

Based on review of above previous environmental documents, all applicable soil and groundwater samples collected at the Site in 2022 and/or 2023 were below applicable MECP Standards. Therefore, previously identified PCAs/APECs do not have the potential to contribute to any current APECs at the Site.

4.2 Environmental Source Information

4.2.1 Regulatory Review

No concerns, complaints, notices of violation, or directives of an environmental nature issued against the Site by federal, provincial, or municipal environmental regulatory agencies have been disclosed to GHD.

Ministry of Environment, Conservation and Parks (MECP)

Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did submit a request to the MECP under the Freedom of Information (FOI) and Protection of Privacy Act relating

to the Overall Nokia Property. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. A response from the MECP was received on September 7, 2022. It should be noted that a new FOI request was not completed for this Phase One ESA, due to operations at the Site (limited to parking lot) having not substantially changed since completion of the GHD Phase One ESA report in 2022. The MECP letter included the following documents:

– Waste Generator information for Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812; see Section 4.2.2 for additional waste class information).
– May 18, 2001, MECP Occurrence Report regarding MECP inspection to determine Alcatel's compliance with Regulation 347. It was reported that Alcatel stored subject wastes for more than 90 days without filing a waste storage report form as required. On June 22, 2001, MECP received the waste storage report form, and no further action required.
– July 12, 2001, MECP Occurrence Report to issue emergency manifest number for waste class #263A (waste poisonous solids nos "2 cyclohexyl-4, 6-dinitrophenol).
– August 14, 2001, MECP Occurrence Report to issue emergency manifest number for waste class #265L (liquid industrial waste "glue).

No PCAs or APECs were identified based on information provided in MECP documents.

City of Ottawa

Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did submit a request to the City of Ottawa to complete a Historic Land Use Inventory (HLUI) database search relating to the Overall Nokia Property and Phase One Study Area. A response from the City of Ottawa was received on February 24, 2022. It should be noted that a new HLUI request was not completed for this Phase One ESA, due to operations at the Site (limited to parking lot) and adjacent properties having not substantially changed since completion of the GHD Phase One ESA report in 2022.

The following PCAs and/or APECs were identified by GHD associated with the Site and Phase One Study Area:

North

– Nokia Office Complex. Due to previous "Design and Manufacture of Digital Communication Products" comment under former Newbridge Networks Corp at the Site, these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings; therefore, these operations were not identified as having the potential to contribute to an APEC at the Site.
– Due to previous "Design and manufacture blast mate seismographs and watch mate wandering patient systems" comment under Instantel Inc. located northeast of the Site at 362 Terry Fox Drive, these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.

West

– The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.

– The operation of dry cleaners at 591 March Road (Hillary's Dry Cleaners and Miller's Quality Dry Cleaners) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– The "Semiconductors & Related Devices (Mfrs)" operations of XILINX Inc located west of the Site at 50 Hines Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely and these operations were not identified as having the potential to contribute to an APEC at the Site.

South

– The "Electronic Equipment & Supplies-Mfrs" operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.

Technical Standards and Safety Authority (TSSA)

Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD did submit a request to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of storage tanks at the Site and select properties within the Phase One Study Area. An email response was received from the TSSA on January 6 and 7, 2022, indicating that there were no records in their database indicating fuel storage tanks are at the Site or at subject addresses. It should be noted that a new TSSA request was not completed for this Phase One ESA, due to operations at the Site (limited to parking lot) and Overall Nokia Property having not substantially changed since completion of the GHD Phase One ESA report in 2022.

4.2.2 Environmental Database Search

Included in GHD's 2022 Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), GHD contracted ERIS to conduct a search of available federal, provincial, and private environmental databases within the Phase One Study Area. The database searches were completed to assist in the identification of environmental conditions at the Site and on adjacent/surrounding properties. GHD reviewed the search results and has summarized applicable environmental findings below for the Site, the overall Nokia Property (adjacent property), and adjacent/surrounding properties within 250 m of the boundary of the Site (parking lot).

In addition, as part of this 2024 Phase One ESA, GHD contracted ERIS to complete an updated database search for the current Phase One Study Area (parking lot, plus 250 m of the boundary of the Site). A copy of the 2024 ERIS database search report is presented in Appendix C. GHD reviewed the search results and has either updated or added applicable environmental findings for the Site, Overall Nokia Property, and adjacent/surrounding properties based on both the 2022 and 2024 ERIS database searches.

Site

The Site was only identified in the Water Well Information System (WWIS) for monitoring wells installed in 2022. No other relevant records were identified for the Site.

Overall Nokia Property

The adjacent Nokia Office Complex to the north was identified in the ERIS report to contain the following records:

– Scott's Manufacturing Directory (SCT) | Newbridge Network Corporation, Alcatel Canada, and Alcatel-Lucent Canada Inc. were identified with the following operations:
    - Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
    - Semiconductor and Other Electronic Component Manufacturing
    - Electronic Components, Not Elsewhere Classified
    - Computer and Peripheral Equipment Manufacturing
    - Telephone Apparatus Manufacturing
– O. Reg. 347 Waste Generators Summary (GEN): Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812 between 2000 and 2022) were identified as operating under the following waste classifications:
    - 112 – Acid Waste – Heavy Metals
    - 121 – Alkaline Wastes – Heavy Metals
    - 122 – Alkaline Wastes – Other Metals
    - 145 – Paint/Pigment/Coating Residues
    - 146 – Other Specified Inorganics
    - 148 – Inorganic Laboratory Chemicals
    - 212 – Aliphatic Solvents
    - 213 – Petroleum Distillates
    - 242 – Halogenated Pesticides
    - 252 – Waste Oils & Lubricants
    - 263 – Organic Laboratory Chemicals
    - 331 – Waste Compressed Gases

Due to above noted records, the adjacent operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) and only limited quantities of chemicals and waste were stored in secure/contained portions of the Site buildings. In addition, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all soil and groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these adjacent operations were not identified as having the potential to contribute to an APEC at the Site.

Adjacent/Surrounding Properties

A summary of the pertinent findings from the ERIS database search for adjacent/surrounding properties within the Phase One Study Area is provided below.

– Sanmina Corporation on the adjacent property to the south at 500 March Road was identified in the GEN database, with operations noted as "semiconductor and other electronic component manufacturing", and Waste Generator No. ON5466737 (2015-2022) for various waste streams. In addition, two EASR records for SCI Brockville Corp at 528 March Road (same adjacent property as 500 March Road) identified a Standby Power System registered as of 8/25/2015 (fuel source not identified). The Sanmina operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
– Miller's Quality Dry Cleaners at 591 March Road located northwest of the Site, across March Road (approximately 150 m distance was identified in the GEN database with Waste Generator No. ON2095500 (1995-2001) for Waste Class 241 (halogenated solvents). These dry-cleaning operations are identified as a PCA (#37 – Operation of Dry-Cleaning Equipment) in accordance with O. Reg. 153/04. However, due to groundwater

sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.

- Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, these off-Site operations were not identified as having the potential to contribute to an APEC at the Site.
- Excalibur Systems, DRS EW & Network Systems, OneChip Photonics, and GaN Systems Inc. at 50 Hines Road located southwest of the Site (approximately 160 m distance) was identified in the SCT and/or GEN database with operations noted as "Semiconductors & Other Electronic Component Manufacturing" and/or other machinery and instruments manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.Sidense Corp, TeleWatch Monitoring Services, and Metconnex Inc. at 84 Hines Road located west of the Site (approximately 175 m distance) was identified in the SCT or GEN database with operations noted as "Semiconductors & Other Electronic Component Manufacturing" and/or other machinery and instruments manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.
- Flexus Electronics. Telemus Inc., 954050 Ontario Inc., and Ultra Electronics at 88 Hines Drive located west of the Site (approximately 175 m distance) were identified in the SCT and/or GEN databases with operations noted as "Semiconductors & Other Electronic Component Manufacturing", as well as other machinery and/or instrument manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.
- Elcombe Systems Limited, Smart Technologies Inc., Sciemetric Instruments Inc., and Pleora Technologies Inc. at 359 Terry Fox Drive located northeast of the Site (approximately 240 m distance) were identified in the SCT and/or GEN database with operations noted as manufacturing of communication equipment, computer, semiconductor, device and/or other electrical component manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- C-MAC Electronic System at 425 Legget Drive located southeast of the Site (approximately200 m distance) was identified in the GEN database with operations noted as "Computer & Peripheral Equipment Mfg", as well as listed as handling various waste solvents, chemical, and oils. Solectron EMS Canada was identified in the SCT database with operations noted as "Semiconductor and Other Electronic Component Manufacturing". These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- Lockheed Canada Inc. and Lockheed Martin Canada Inc. at 3001 Solandt Road located southeast of the Site (approximately 220 m distance) were identified in the CA and ECA databases with approved/cancelled industrial air permits for paint spray booths and ovens. Under the SCT database Lockheed Martin Canada Inc. was listed with operations noted as "Semiconductor and Other Electronic Component Manufacturing" and other instrument manufacturing, as well as listed with "Aerospace Product and Parts Manufacturing" operations and having various

waste solvent, paints, chemicals, and oils under the GEN database. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

- A standby emergency diesel generator at 495 March Road located south of the Site (approximately 200 m distance) was listed in the CA database and is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site this operation was not identified as having the potential to contribute to an APEC at the Site.
- A spill of 30 litres of engine oil was reported in the SPL database at the intersection of Terry Fox and March Road (adjacent to the northwest of the Overall Nokia Property) on September 1, 2010. Based on the quantity of spilled oil, it is unlikely this release will have adversely affected the Site.
- A spill of unknown quantity of diesel fuel was reported in the SPL and HINC databases at 515 Legget Drive (east of the Site, across Legget Drive) on November 13, 2008. The reason for the spill was unknown but was cleaned with environmental impact not anticipated. It is unlikely this release will have adversely affected the Site.
- A spill of 150-250 litres of diesel fuel was reported in the SPL database at 70 Hines Road (Legion Branch 638; west of the Site, across March Road) on August 21, 2019. Rogers Communications was listed as client, with diesel released to ground due to cracked line (material failure – poor design/substandard material). Although clean-up not explicitly mentioned, it is unlikely this release will have adversely affected the Site. However, due to groundwater sampling activities completed by GHD in 2022 and 2023 (refer to Section 4.1.6), all groundwater parameters at the Site were reported below MECP Table 7 Standards; therefore, this off-Site operation was not identified as having the potential to contribute to an APEC at the Site.
- A spill of an unknown quantity of diesel fuel was reported in the SPL database at 525 Legget Drive located northeast of the Site (approximately 215 m distance) on March 27, 2023. The spill originated from a motor vehicle with the receiving medium being land and a private catch-basin. Although clean-up not explicitly mentioned, it is unlikely this release will have adversely affected the Site.

4.3 Physical Setting

4.3.1 Aerial Photographs

Aerial photographs were reviewed to generally document the development of the Site and properties in the vicinity of the Site, and to identify the existence of any significant areas of actual or potential environmental concern at the Site. Included in GHD's Phase One ESA report for the Overall Nokia Property (dated April 20, 2022; refer to Section 4.1.6), aerial photographs of the Site and surrounding area reviewed by GHD included the years 1934, 1945, 1952, 1960, 1976, 1985, 1991, 1999, 2009, and 2019 (source: National Air Photo Library (NAPL); City of Ottawa geoOttawa website). It should be noted that limited to no changes were observed by GHD reviewing the 2021 aerial photograph (source: City of Ottawa geoOttawa website).

Based on the history of the Site and the quantity and quality of the aerial imagery available for review, the selected time period between aerial photographs was determined to be suitable for the purposes of this Phase One ESA.

Year	Site	Neighbouring Properties
1930	The Site appears to be vacant (no buildings) or used for agricultural purposes.	March Road is located west of the Site. Neighbouring properties appear to either be vacant (no buildings) or used for agricultural purposes or occupied by residential dwellings.
1945, 1952, 1960, 1976, 1985	No significant changes in land use had occurred since 1930. Some surface disturbances were noted initially in 1976 photo (unknown purpose and unchanged as of 1985 photo).	No significant changes had occurred on the neighbouring properties since 1930, with the exception of the following: – New residential structure observed as of 1952 on adjacent property to the west (center). – Trails and new structure(s) observed in wooded area as of 1960 on adjacent property to the west (south). – New commercial structure observed as of 1976 on adjacent property to the west (north); expanded structure and parking areas observed on 1985 photo. – Hines Road to the west observed as of 1985 photo.
1991	The Site appears to be vacant	Significant changes at neighboring properties have occurred as follows: – New building structures (existing office buildings), driveways and parking lots have been constructed on the northern adjacent property. – Terry Fox Drive (north) has been constructed, and Legget Drive (east) and McKinley Drive (north) are being constructed. – Two new commercial buildings with parking lots constructed to the northeast of the Site (one north and one south of Terry Fox Drive). – One new commercial building and parking lots constructed to the south of the Site. – Four new commercial buildings with parking lots constructed to the west of the Site across March Road. – A new housing development constructed to the northwest of the Site across intersection of March Road and Terry Fox Drive.
1999	Large parking lots have been constructed on the Site.	Significant changes at neighboring properties have occurred as follows: – New building structures (existing office buildings) have been constructed where 1991 parking lots were observed with additional driveways and parking observed. – New commercial buildings and parking have been constructed to the north of the Site across Terry Fox drive, as well as new residential development on east side of McKinley Drive. – A new commercial building with parking lots constructed to the northeast of the Site (north of Terry Fox Drive). – Two new office towers (linked by lower-level building) with parking lots, as well signs of further construction, were observed to the east of the Site (across Legget Drive). – One new commercial building with parking lots constructed to the southeast of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed to the west of the Site across March Road.
2009	No significant changes have occurred with the property land use since 1999.	Significant changes at neighboring properties have occurred as follows: – Two new office towers, the Brookstreet Hotel with golf course and parking structure, and associated parking lots have been constructed to the east of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed west and southwest of the Site (across March Road). – A gas station has been constructed north of the Site along March Road.

Year	Site	Neighbouring Properties
2019	No significant changes have occurred with the property land use since 2009.	Significant changes at neighboring properties have occurred as follows: – One new commercial structure with parking lots constructed on the adjacent property to the east.

Based on GHD's review of the aerial photographs, no PCAs and/or APECs were identified.

4.3.2 Topography, Hydrology, and Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry. The mapping shows the topography at the Site and in the Phase One Study Area as relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. The Ottawa River is located approximately 3.2 km northeast from the Site limits. Generally, stormwater in the Phase One Study Area is anticipated to drain to municipal catch basins and by infiltration.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022) and “Geotechnical Investigation and Hydrogeological Investigation” report (dated March 13, 2024), geotechnical and hydrogeological assessments were carried out in 2022 (Overall Nokia Property) and in 2023 (Site), respectively, to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Six boreholes and ten monitoring wells have been advanced at the Site to auger refusal and/or into bedrock. A summary of applicable subsurface conditions is noted below:

– Topsoil and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.7 metres below ground surface (mBGS). Silty clay to clay deposit was encountered below topsoil or subbase material.
– Glacial till and/or bedrock were encountered at depths ranging from 0.2 to 4.4 mBGS in applicable boreholes.
– Groundwater was not originally encountered in the overburden stratigraphy at BH01-22 in February 2022. However, groundwater elevations on May 26, 2022, and April 27, 2023, were reported at 77.61 and 78.60 metres above mean sea level (mAMSL), respectively. It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 mAMSL on February 9, 2022. Additional, groundwater elevations in bedrock were collected on May 26, 2022 (ranging from 74.19 to 79.69 mAMSL) and on April 27, 2023 (74.52 to 79.93 mAMSL). The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook. The actual direction could not be confirmed based on varied groundwater levels in the bedrock, likely due to location of bedrock seams).

4.3.3 Fill Materials

Based on review of aerial photographs, observations made by GHD during the Site inspection, and subsurface conditions documented in the 2022 and 2023 GHD Geotechnical and Hydrogeological Investigation Reports (refer to Section 4.3.2), fill material at the Phase One Property is limited to granular material associated with the construction of the parking lot.

4.3.4 Water Bodies and Areas of Natural Significance

There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The closest significant surface water body is the Ottawa River located approximately 3.2 km northeast of the Site.

In accordance with O. Reg. 153/04, an "area of natural significance" is defined as any of the following:

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.

2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance.
3. A wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species.
7. An area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A summary of GHD's review is provided below:

1. The Site is not an area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. The Site is not considered to be an area of natural and scientific interest (life science or earth science) as identified by the Ministry of Natural Resources as having provincial significance.
3. The Site is not a wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. The Site is not designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. The Site is not an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. The Site is not an area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species. GHD conducted a search to determine if threatened or endangered species are present within or adjacent to the Site. According to the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), Species at Risk in Ontario (SARO), and the Ontario Ministry of Natural Resources and Forestry (MNRF), no species were listed as threatened and/or endangered within the Phase One Study Area.
7. The Site is not an area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. The Site is not located within an area designated as part of the Oak Ridges Moraine natural core area or natural linkage area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. The Site is not an area set apart as a wilderness area under the Wilderness Areas Act.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

4.3.5 Well Records

A search of the MECP Water Well Information System (WWIS) database was conducted as a component of the ERIS database search completed for the Site (refer to Appendix C). No monitoring wells were registered on the Site prior to GHD subsurface investigations in 2022 and 2023.

Eight wells were registered in the surrounding properties including:

– Four domestic water supply well and one industrial supply well installed to the west of the Site (across March Road) between 1952 and 1969.
– One test hole installed to the south of the Site (across March Road) in 2010.
– One test hole installed to the west of the Site (across March Road) in 2014.
– One domestic water supply well installed to the south of the Site (3001 Solandt) in 2017.

The Phase One Property is currently located in an area municipally serviced with potable water. The current status of these wells is unknown.

4.3.6 Site Operating Records

No Site operating records were not provided to GHD as part of the Phase One ESA.

5. Interviews

As part of the Phase One ESA site inspection, GHD interviewed Mr. Wayne Carroll (Building Operations Manager) on August 15, 2024 (Site Representative). Mr. Carroll has been familiar with the Site and associated Site operations for approximately 30 years. GHD also interviewed Mr. Carroll during the 2022 Phase One ESA.

The interview completed with the Site Representative was focused on the historical and current use of the Phase One Property, and the topics listed in Sections 13 and 14 of Schedule D of O. Reg. 153/04. Relevant information provided to GHD by those interviewed has been summarized in applicable sections of Section 6 – Site Reconnaissance.

6. Site Reconnaissance

6.1 General Requirements

On August 16, 2022, Mr. Joseph Drader of GHD conducted a Site reconnaissance visit of the Phase One Property between 4 and 5 p.m. Weather conditions were sunny with an approximate temperature of 25°C.

Photographs from the Site visit are included in **Appendix D.**

6.2 Specific Observations at Phase One Property

6.2.1 Property and Building

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 5.2 ha in size and is irregular in shape. The Site is currently occupied with surface-level parking lot (asphalt) and landscaped areas. There are no buildings on-Site, but the parking lot is associated with the adjacent Nokia Office Complex to the north.

6.2.2 Current Site Operations

The Phase One Property is currently used as a parking lot.

6.2.3 Historical Site Operations

Based on a review of the historical records for the Site, the Site was historically vacant or utilized for agricultural purposes.

6.2.4 Utility Services

The Site is serviced with electricity (parking lot light poles) provided by Hydro Ottawa.

The Site is currently serviced with municipal storm sewer services. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catch basins in parking lot and driveways, as well as from other surrounding properties.

The Site Representative was not aware of any historical utility and/or water services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

6.2.5 Underground Storage Tanks (USTs)

No underground storage tanks or evidence of previously existing USTs were observed by GHD at the time of the Site inspection. The Site Representative was not aware of any current or historic USTs.

6.2.6 Above Ground Storage Tanks (ASTs)

No above ground storage tanks or evidence of previously existing ASTs were observed by GHD at the time of the Site inspection. The Site Representative was not aware of any current or historic ASTs at the Site.

According to the Site Representative, the following ASTs were identified at the adjacent Nokia Office Complex to the north of the Site:

– Exterior 4,540 litre diesel tank located next to the generator outbuilding. The AST is double-walled on concrete slab (no containment walls). AST was installed in 2011 to replace a similar AST. The generator was to be initially fuelled with a flat tank located below the generator in the outbuilding but was never reportedly used and the flat tank was left in place.
– A 2,220-litre diesel tank located inside Hydro Vault and Generator building. The AST is double-walled on concrete slab. AST was installed in approximately 2003 (manufactured date) to replace a smaller AST.
– A 935-litre diesel tank (ground floor) and 454 litre diesel day tank (penthouse next to generator) are located inside Tower 3. Both tanks are located in concrete secondary containment. According to the Site Representative, these ASTs were installed in 2011 to replace similar ASTs.

The Site Representative was not aware of any other current or historic ASTs and was not aware of any spills/releases associated with current/historic ASTs or generators on the adjacent property.

The operation of the adjacent ASTs is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, based on GHD's Phase Two ESA report of the Overall Nokia Property (dated July 19, 2022) and GHD's Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site near the adjacent property to the north were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. Therefore, the adjacent AST operations were not identified as having the potential to contribute to an APEC at the Site.

6.2.7 Floor Drains, Pits, and Sumps

At the time of the Site inspection, GHD did not observe any floor drains, pits, or sumps at the Site.

6.2.8 Wastewater/Sewers

According to the Site Representative and based on GHD's observations during the Site inspection, there is no wastewater generated at the Site.

6.2.9 Enhanced Investigation Property

In accordance with O. Reg. 153/04, Part VIII, Clause 32 (1) b, the Phase One Property is considered to be an Enhanced Investigation Property if it is currently used or has ever been used in whole or in part for industrial use, or commercial uses including a garage, a bulk liquid dispensing facility such as a gas station, or for the operation of dry-cleaning equipment. Based on the current and historical use of the Site, the Site is not considered an Enhanced Property.

6.2.10 Asbestos-Containing Materials (ACM)

At the time of the Site inspection, GHD did not observe any building materials that would contain asbestos.

6.2.11 Polychlorinated Biphenyls (PCBs)

At the time of the Site inspection, GHD did not observe any equipment that would contain PCBs.

6.2.12 Solid Waste/Recyclable Materials

At the time of the Site inspection, GHD did not observe any solid waste or recycling materials generated at the Site. The Site Representative was not aware of any current or historic on-Site waste disposal activities.

6.2.13 Chemical and Raw Material use and Storage

Based on discussions with the Site Representative and GHD's visual observations during the Site inspection, there are no chemicals used and stored at the Site.

6.2.14 Subject Waste/Hazardous Waste

Based on discussions with the Site Representative and GHD’s visual observations during the Site inspection, no subject/hazardous wastes are generated at the Site.

6.2.15 Chemical Spills/Releases

At the time of the Site inspection, GHD did not observe any visual evidence of chemical spills or releases at the Site. A review of the Ontario Spills database included in the ERIS report (refer to Section 4.2.2) did not identify any spills associated with the Site.

6.2.16 Lead-Based Paint

At the time of Site inspection, GHD did not observe any building materials that would contain lead-based paint.

6.2.17 Chlorofluorocarbons

At the time of the Site inspection, GHD did not observe any equipment potentially containing chlorofluorocarbons (CFCs).

6.2.18 Air Emissions

At the time of the Site inspection, GHD did not observe any equipment producing air emissions.

6.2.19 Ionizing Radiation

According to the Site Representative and based on GHD observations during the Site inspection, no sources of ionizing radiation were observed at the Site.

6.3 Written Description of Investigation

The Phase One ESA included a records review, interviews with the Site Representative, a Site reconnaissance, and a review and evaluation of the information obtained during the Phase One ESA. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

The findings from the assessment carried out pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended, were previously discussed in Section 6.

7. Review and Evaluation of Information

7.1 Current and Past Uses (Site)

A summary of the current and past uses of the Site is provided below.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1930 to 1991	Unknown Newbridge Networks Corporation (1987-2002)	Vacant (no buildings) or Agricultural	Vacant (no buildings) or Agricultural	Suspected to have been undeveloped and/or used for agricultural purposes (based on aerial photographs).
1991 to Present	Newbridge Networks Corporation (1987-2002) Alcatel Canada Inc. (2002-2013) Alcatel-Lucent Canada Inc. (2013-2016) Nokia Canada Inc. (2016-Present; Nokia acquires Alcatel-Lucent)	Parking lot	Commercial and/or Industrial	Based on a review of the 1991, 1999, 2009, and 2019 aerial photographs, the Site was developed with a large parking lot.

7.2 Potentially Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153/04, under the Environmental Protection Act. The following PCAs have been identified to be on, in, or under the Phase One Property, or located within the Phase One Study Area.

Location and Description	Potentially Contaminating Activity (PCA)
Adjacent Property to the North – Exterior diesel AST and generator	#28 - Gasoline and Associated Products Storage in Fixed Tanks

Location and Description	Potentially Contaminating Activity (PCA)
Adjacent Property to the North – Newbridge Networks	#19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	#19 – Electronic and Computer Equipment Manufacturing
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	#37 – Operation of Dry-Cleaning Equipment
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	#19 – Electronic and Computer Equipment Manufacturing
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioner
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 215 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 190 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks

The location of the above-noted PCAs are shown on **Figure 3**.

7.3 Areas of Potential Environmental Concern

Based on GHD's Phase Two ESA report of the Overall Nokia Property (dated July 19, 2022) and GHD's Groundwater Sampling Activities letter for the Site (dated August 12, 2024) (both documents referenced in Section 4.1.6), all analyzed soil and groundwater samples collected at the Site in 2022/2023, as well as applicable soil and groundwater samples collected at the adjacent Nokia Office Complex in 2022, were below applicable site condition standards noted in Ontario MECP document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the*

Environmental Protection Act," dated April 15, 2011. Therefore, the PCAs identified in Section 7.2 do not have the potential to contribute to an APEC at the Site.

7.4 Phase One Conceptual Site Model

The Phase One Property is located at 600 March Road in Kanata (Ottawa), Ontario, and includes the southern parking lot property that is currently part of the Overall Nokia Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. A Site Location Map and a Site Plan are provided on **Figure 1** and **Figure 2**, respectively. The Phase One Property contains two parcels with the following property identification numbers (PINs) and descriptions:

– 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
– 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

The Phase One Property is approximately 5.2 ha in size and currently consists of surface level car parking and landscaped areas. The Phase One Property is currently owned by Nokia Canada Inc., and it is understood the Nokia is looking to improve its existing campus, including new high-rise office and retail building, six-storey lab building, and four storey-parking garage, all with associated underground parking. Prior to the Nokia owning/operating the Phase One Property, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The general topography at the Site and in the Phase One Study Area is relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022) and “Geotechnical Investigation and Hydrogeological Investigation” report (dated March 13, 2024), geotechnical and hydrogeological assessments were carried out in 2022 (Overall Nokia Property) and in 2023 (Site), respectively, to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Six boreholes and ten monitoring wells have been advanced at the Site to auger refusal and/or into bedrock. A summary of applicable subsurface conditions is noted below:

– Topsoil and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.7 mBGS. Silty clay to clay deposit was encountered below topsoil or subbase material.
– Glacial till and/or bedrock were encountered at depths ranging from 0.2 to 4.4 mBGS in applicable boreholes.
– Groundwater was not originally encountered in the overburden stratigraphy at BH01-22 in February 2022. However, groundwater elevations on May 26, 2022, and April 27, 2023, were reported at 77.61 and 78.60 mAMSL, respectively. It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 mAMSL on February 9, 2022. Additional, groundwater elevations in bedrock were collected on May 26, 2022 (ranging from 74.19 to 79.69 mAMSL) and on April 27, 2023 (74.52 to 79.93 mAMSL). The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook. The actual direction could not be confirmed based on varied groundwater levels in the bedrock, likely due to location of bedrock seams).

Based on the information reviewed and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered an area of natural significance.

The Site is serviced with electricity provided by Hydro Ottawa. The Site is currently serviced with storm sewer services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

The Phase One ESA Conceptual Site Model, including the location of PCAs, is depicted on **Figure 3**.

8. Conclusions

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, previous environmental reports, and the review of Site history, no APECs were identified to be associated with the Site.

8.1 Requirement for Phase Two ESA Before RSC Can Be Submitted

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is not required to characterize soil and groundwater quality at the Phase One Property.

8.2 Signatures

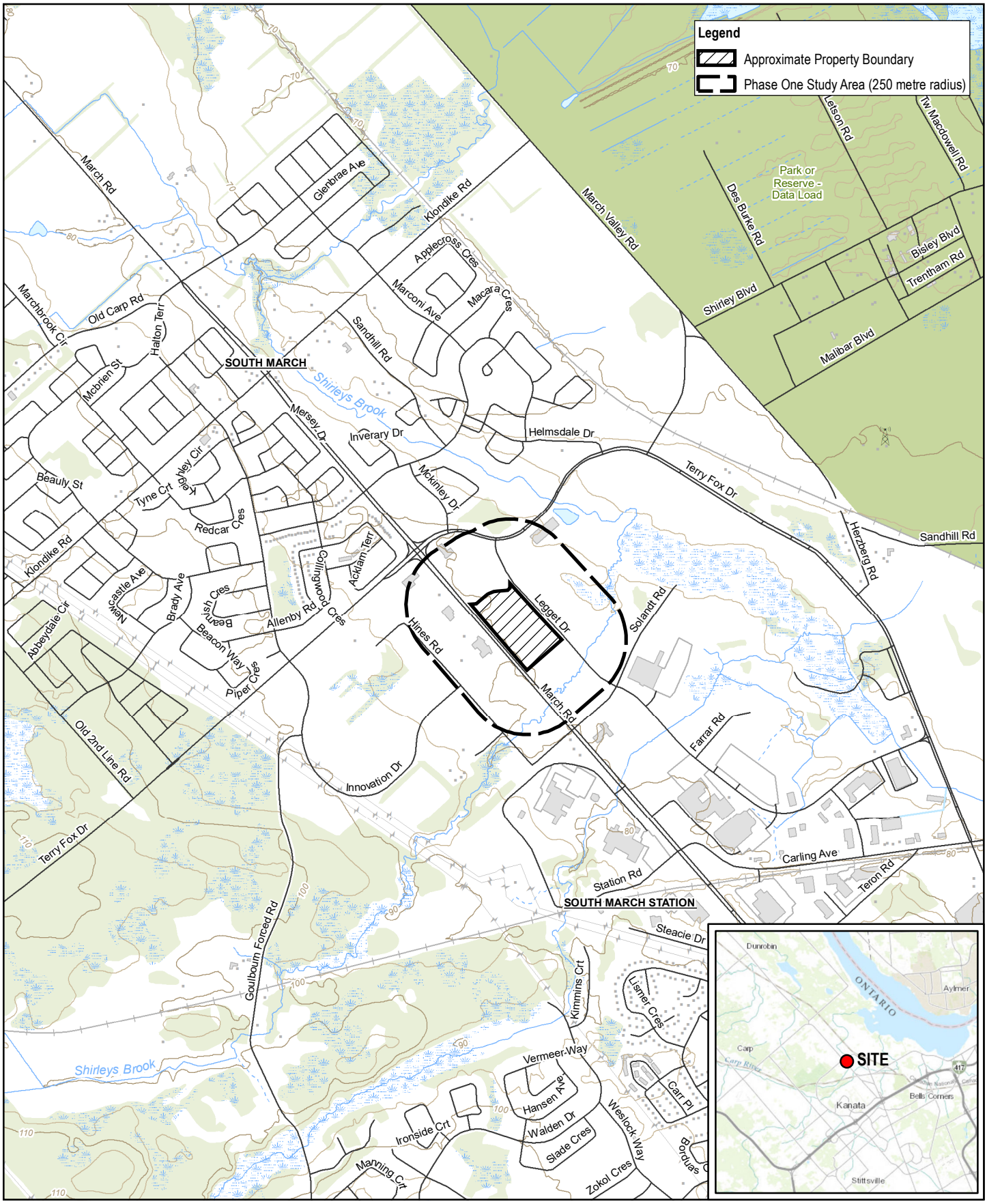
Joseph Drader and Warren Croft, Qualified Persons for Environmental Site Assessment under O. Reg. 153/04, confirm the carrying out of this Phase One ESA and the findings and conclusions of this report.

9. References

Ministry of Environment. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.

Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.

Figures



Scale 1:20,000

0 200 400 600

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

NOKIA CANADA
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

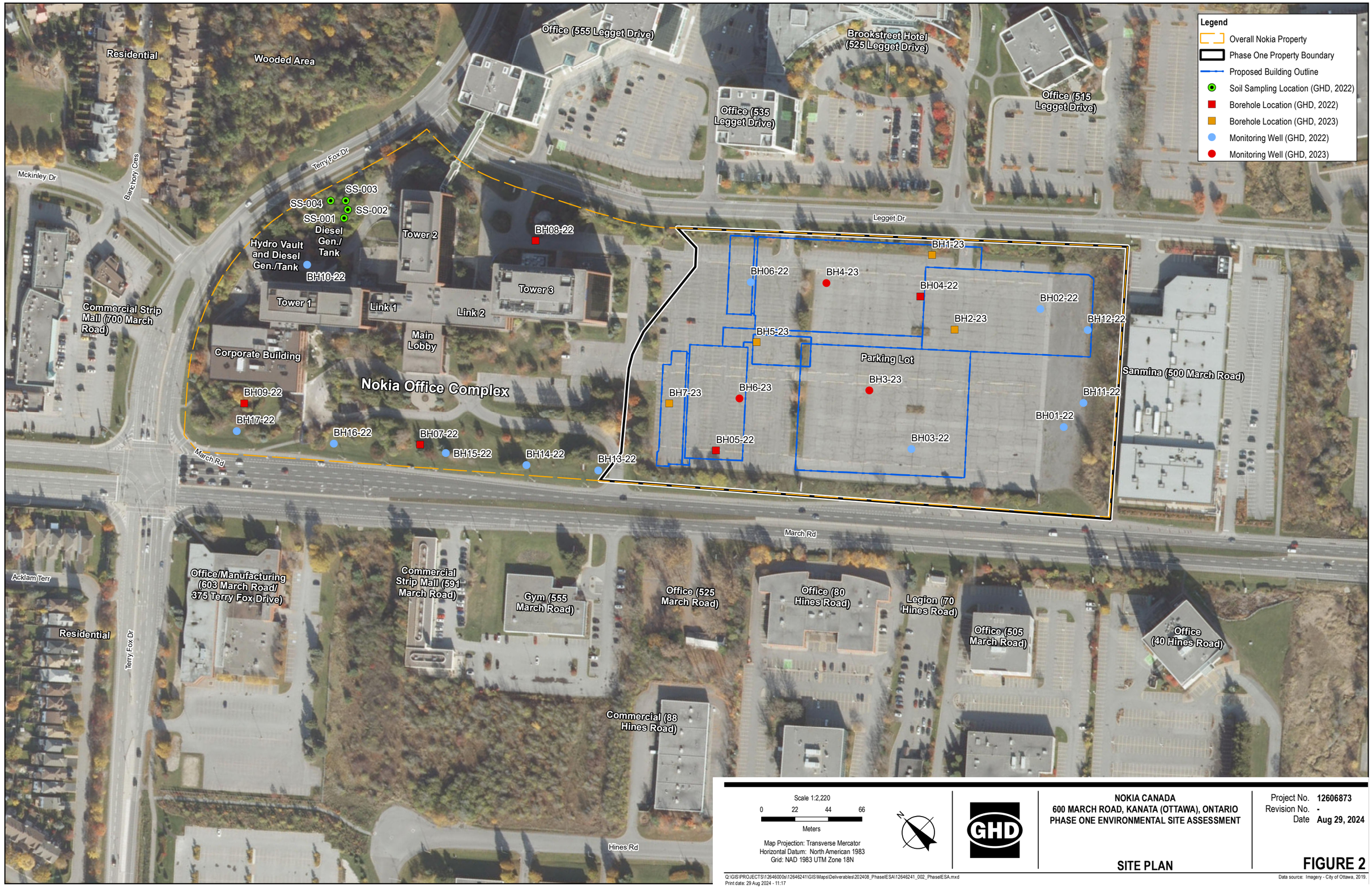
Project No. **12646241**
Revision No. **-**
Date **Aug 29, 2024**

SITE LOCATION MAP

FIGURE 1

O:\GIS\PROJECTS\12646000s\12646241\GIS\Maps\Deliverables\202408_PhaseIESA\12646241_001_PhaseIESA.mxd
Print date: 29 Aug 2024 - 11:05

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry. © King's Printer 2024.



Scale 1:2,220

0 22 44 66

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

NOKIA CANADA
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

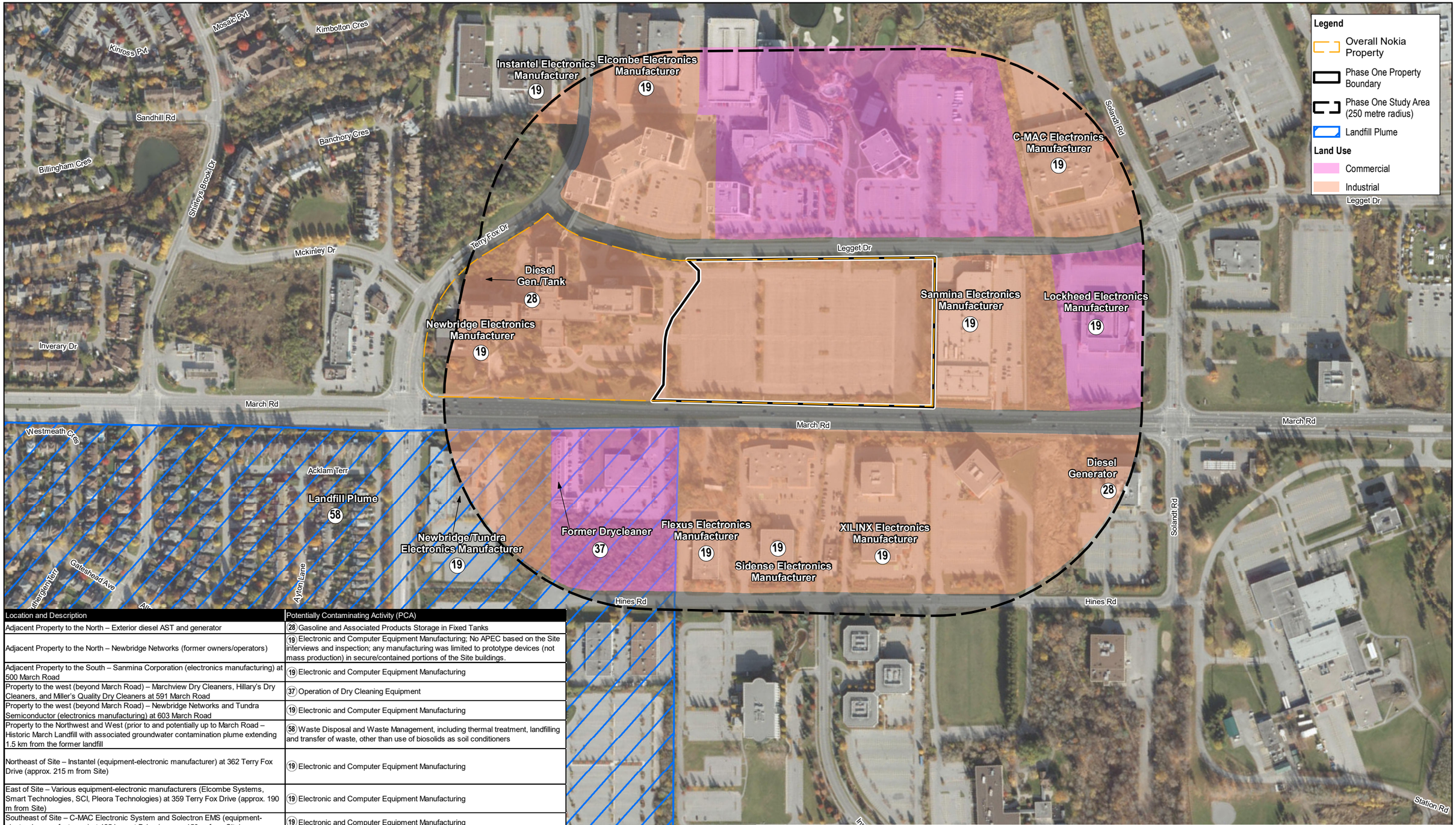
SITE PLAN

Project No. **12606873**
Revision No. **-**
Date **Aug 29, 2024**

FIGURE 2

Q:\GIS\PROJECTS\12646000s\12646241\GIS\Maps\Deliverables\202408_PhaseIESA\12646241_002_PhaseIESA.mxd
Print date: 29 Aug 2024 - 11:17

Data source: Imagery - City of Ottawa, 2019.



Location and Description	Potentially Contaminating Activity (PCA)
Adjacent Property to the North – Exterior diesel AST and generator	(28) Gasoline and Associated Products Storage in Fixed Tanks
Adjacent Property to the North – Newbridge Networks (former owners/operators)	(19) Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings.
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	(19) Electronic and Computer Equipment Manufacturing
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	(37) Operation of Dry Cleaning Equipment
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	(19) Electronic and Computer Equipment Manufacturing
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	(58) Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 215 m from Site)	(19) Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 190 m from Site)	(19) Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	(19) Electronic and Computer Equipment Manufacturing
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South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	(28) Gasoline and Associated Products Storage in Fixed Tanks

Scale 1:4,300

0 43 86 129

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

GHD

NOKIA CANADA
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CONCEPTUAL SITE MODEL

Project No. **12646241**
Revision No. **-**
Date **Aug 29, 2024**

FIGURE 3

Q:\GIS\PROJECTS\12646000s\12646241\GIS\Maps\Deliverables\202408_PhaseIESA\12646241_003_PhaseIESA.mxd
Print date: 29 Aug 2024 - 11:22

Data source: Imagery - City of Ottawa, 2019.

Appendices

Appendix A

Curricula Vitae

A GHD Principal

Warren Croft P.ENG., QP_{ESA}

Engineering Leader



Location

Toronto, Ontario, Canada

Experience

20 years

Qualifications/Accreditations

– B.Sc., Engineering, University of Guelph, 2001
– Qualified Person for Environmental Site Assessment (QP_{ESA}), under Ontario Regulation (O.REG) 153/04

Key technical skills

– Environmental Site Assessments
– Environmental Risk Management
– Project Management

Memberships

– Registered Professional Engineer: Ontario

Relevant experience summary

Warren is a Principal/Vice-President at GHD with 20 years of experience in the management of environmental and remediation projects, including over 200 projects in Ontario relating to Phase I and II Environmental Site Assessments (ESAs), Record of Site Condition (RSC), Designated Substances Surveys (DSS), asbestos abatement, environmental remediation, brownfield redevelopment, environmental compliance/permitting, and risk assessment. He guides clients in managing environmental liabilities to support long-term business needs, including the development and implementation of risk management plans. Additionally, Warren is a QPESA for filing RSCs and submitting Phase Two ESA conceptual site models (CSMs) to support Risk Assessments (RAs). Furthermore, Warren acts as a technical ESA resource and leads ESA components of many large, multidisciplinary infrastructure projects throughout the province.

Municipal/Public Infrastructure

RSC Guidance

Technical Advisor
RSC Guidance | City of Barrie | Barrie, ON | 2019 – present

Warren is the Technical Advisor for the preparation of a RSC guidance document to assist City of Barrie in evaluating development applications. The guidance documents outlines how the RSC filing process impacts different types of development applications, and identifies the roles/ responsibilities of different City departments in confirming compliance with Ontario Regulation 153/04.

Project Director

Toronto Street and Simcoe Street Environmental Investigation | City of Barrie | Barrie, ON | 2018 – 2019

Warren is the Project Director for an environmental investigation to document potential extent of impact in the area of Toronto Street and Simcoe Street in Barrie. Warren met with City staff to provide guidance regarding environmental conditions, and options to investigate and/or remediate identified impacts.

ESA Lead

Northeast Vaughan Water and Wastewater Servicing | York Region, ON | 2017 – 2019

Warren acts as the Environmental Site Assessment Lead for the completion of ESA screening and soil/groundwater sampling strategy for the Northeast Vaughan Water and Waster Servicing project. Warren

also provided guidance to the project team regarding ESA requirements for potential land acquisition.

Soil Characterization Program

Environmental Lead |
Waterfront Toronto | Toronto, Ontario, Canada | 2016

Technical advisor during the environmental investigation of a portion of Toronto's Port Lands area, in support of the re-routing of the mouth of the Don River. Supported GHD's project management team and field team in the interpretation of historical records, and completion of soil and groundwater sampling at the site.

Upper York Sewage Solutions (UYSS)

ESA Lead
Regional Municipality of York | East Gwillimbury, Ontario, Canada | 2014 - 2016

Warren acts as the Environmental Site Assessment Lead for the completion of Phase One and Two ESAs to support property acquisition and project planning for the Upper York Sanitary Sewer project. He works with the other discipline leads to ensure that project milestones are met and the client's environmental liability is minimized during property acquisition and construction.

Burnhamthorpe Road Watermain Twinning

Environmental Lead |
Regional Municipality of Peel | Mississauga, Ontario, Canada | 2014 - 2016

Warren acts as environmental lead and completed a Contaminant Inventory and a Phase One ESA to support the Region's project planning. Warren provided guidance regarding identifying higher risk properties and potential contaminant sources within proposed construction areas, and provided recommendations regarding environmental risk at the higher risk properties.

480 Lakeshore Blvd. East

Environmental Lead |
Waterfront Toronto | Toronto, Ontario, Canada | 2011 - 2016

Warren acted as the technical lead and primary Site Assessor for the completion of a Phase I ESA of a former bulk fuel storage facility. Warren provided guidance to the project team regarding the findings of the Phase I ESA and the requirements for soil and groundwater sampling at the Site. Warren subsequently supported the construction of specific Risk Management Measures to comply with City of Toronto requirements.

Seneca College King Campus Expansion

Project Manager |
Seneca College | King City, Ontario, Canada | 2014 - 2016

Warren acted as Project Manager for the completion of environmental and geotechnical investigations at King City campus of Seneca College in support of a proposed building expansion following Infrastructure Ontario's AFP model. Based on the results of preliminary environmental investigations, a Due Diligence Risk Assessment was completed to document potential environmental risks associated with road salt impacts to the Site. GHD's team worked with Seneca College staff to complete the work at an active educational facility, while minimizing impacts to staff and students. He coordinated site access, including work around entrance roads, along Dufferin Street, and within active agricultural fields and acted as technical lead for environmental components of the project.

Etobicoke General Hospital

Project Manager |
William Osler Health System | Etobicoke, Ontario, Canada | 2014 - 2015

Warren acted as Project Manager for the completion of environmental and geotechnical investigations at Etobicoke General Hospital in support of proposed redevelopment. Coordinated site access, including work around emergency room entrance, main entrance, and visitor parking areas. Acted as technical lead for environmental components of the project.

Milton District Hospital

Environmental Lead |
Shared Services West | Milton, Ontario, Canada | 2013 - 2014

Warren acted as the Environmental Lead for environmental investigations at Milton Hospital, including the completion of Phase One and Two ESAs and coordination of asbestos sampling activities. Worked with the geotechnical lead to ensure that appropriate environmental samples were collected, while minimizing the number of boreholes/monitoring wells at the site. Assisted Milton Hospital and Shared Services West staff in negotiating environmental management requirements with the municipality and Infrastructure Ontario.

Infrastructure Ontario

Thistletown Regional Campus

Project Manager |
Infrastructure Ontario (IO) | Toronto, Ontario, Canada | 2013 - presents

Project manager for the completion of Phase I and II ESAs, completion of designated substances surveys, design and oversight of remedial program, and completion of a due diligence risk assessment at the Thistletown Regional Campus in Toronto, Ontario. Coordinated access with facility personnel, and developed specific health and safety protocols to ensure that investigative activities did not pose a risk to property residents.

Ontario Place Redevelopment

Project Manager |
Infrastructure Ontario | Toronto, Ontario, Canada | 2012 - present

Warren acts as Project Manager for due diligence activities at Ontario Place, which have included Designated Substances Survey, Building Condition Surveys, Phase One and Two ESAs, and Geotechnical Investigations. Warren is currently managing the completion of a Phase One and Two ESA, Risk Assessment, and Record of Site Condition for a portion of the east island, to support the Urban Park and Waterfront Trail project. Warren also provides guidance to Infrastructure Ontario and their park design team regarding the design and construction of Risk Management Measures and imported soil quality requirements, to ensure that ongoing construction is consistent with the Risk Assessment and that the soil brought to the proposed park is suitable for use at Ontario Place.

Vendor of Record, Central and Southwestern Regions

Technical Lead |
Infrastructure Ontario | Ontario, Canada | 2012 - 2016

Warren acts as a technical lead and primary contact for GHD's Vendor of Record contract with Infrastructure Ontario, which has included Phase One and Two ESAs, designated substances surveys, remediation oversight, Risk Assessment, and Records of Site Condition. Warren attends monthly vendor calls, tracks performance of GHD's projects, acts as a key technical contact regarding environmental site assessments, and also manages a variety of Infrastructure Ontario projects.

Proposed ErinOak Kids

QP$_{ESA}$ |
Infrastructure Ontario | Brampton, Ontario, Canada | 2014 - 2015

QPESA for the filing of Records of Site Condition for two parcels of land associated with the proposed ErinOak Kids Brampton facility. Coordinated the completion of Phase One and Two ESAs, provided guidance to the current property owner (City of Brampton) regarding the RSC process and the documents that must be prepared and signed by the owner to support the RSC filing, and coordinated with MOECC Brownfields group staff regarding the RSC filing. Filed two RSCs on the Ontario Environmental Site Registry, which were acknowledged by MOECC.

Proposed Mackenzie Vaughan Hospital

Project Manager |
Infrastructure Ontario | Vaughan, Ontario, Canada | 2013 - 2015

Warren acted as Project Manager for the completion of environmental, geotechnical, and hydrogeological investigations at the proposed Mackenzie Vaughan Hospital. The project was completed following Infrastructure Ontario's Alternative Financing and Procurement (AFP) Guidance Document for Environmental and Geotechnical Investigations. GHD also worked with staff and consultants from the City of Vaughan to support the remediation of localized soil impacts and the filing of a Record of Site Condition. He coordinated site access and acted as technical lead for environmental components of the project.

Due Diligence

Project Manager |
Infrastructure Ontario | Ontario, Canada | 2013 - 2015

Project Manager for the completion of a Designated Substances Survey and Phase One ESA at a potential redevelopment property in Toronto. Subsequently provided technical guidance to Infrastructure Ontario regarding the disentanglement of the building heating system from adjacent structures, including the removal of asbestos on piping. Provided recommendations regarding building ventilation requirements to prevent mold growth. Currently working with Infrastructure Ontario to develop abatement specifications for the Designated Substances in the building.

Former St.Thomas Psychiatric Facility

Project Manager |
Infrastructure Ontario | St.Thomas, Ontario, Canada | 2012 - 2013

Project manager for the completion of a Phase One ESA and Soil/Groundwater quality investigation at the St. Joseph's Regional Mental Health facility in St. Thomas, Ontario. Completed interviews with facility personnel, inspected client and resident spaces, and coordinated health and safety requirements for the completion of the soil and groundwater sampling activities.

Environmental Specialist (Secondment)

Infrastructure Ontario | Toronto, Ontario, Canada | 2010 - 2012

Warren assisted Infrastructure Ontario in the management of environmental consultants and contractors at the West Don Lands in Toronto, Ontario in support of the redevelopment of a large brownfield property into the 2015 Pan Am Games Athletes' Village. Tasks included coordination of consultants and contractors, providing guidance to ORC staff on the environmental approvals process, and review of Phase I/II ESAs, Risk Assessments, Certificates of Property Use, and Records of Site Condition completed in accordance with the recently revised Regulation 153/04. Attended meetings with stakeholders including Ministry of Environment, City of Toronto, Waterfront Toronto, Infrastructure Ontario, and prospective developers to support Infrastructure Ontario staff in their role.

Industrial/Private Infrastructure

Risk Assessment

Project Manager |
Confidential Client | Toronto, Ontario, Canada | 2013 - present

Project Manager and QP (ESA) for the completion of a Phase One and Two ESA, and Risk Assessment at an active industrial property in Toronto, Ontario, completed to support the sale of the property, and to document liabilities at the time of the sale.

Risk Assessment

Project Coordinator |
Confidential Client | Mississauga, Ontario, Canada | 2012 - present

Project Coordinator and QPESA for a Phase One ESA, Phase Two ESA, and Risk Assessment of an industrial brownfield site. The project included development of risk based remedial targets for soil remediation, followed by the completion of a Risk Assessment to manage remaining soil and groundwater impacts.

Proposed Holt Pit

ESA Support |
Rice Commercial Group Ltd. | Newmarket, Ontario, Canada |2017 - 2019

Warren provided Phase One and Two ESA support to the project team related to the proposed Holt Pit. Warren's role focused on Phase One ESA technical review, and confirming that the ESAs met the minimum requirements of Ontario Regulation 153/04, as amended, as well as coordinating sampling requirements with other technical leads.

Healthcare Centre Redevelopment

Environmental Lead |
West Park | Toronto, Ontario, Canada| 2016

Environmental lead for the completion of Phase One and Two Environmental Site Assessments in support of the proposed expansion of the facility. Supported client decision making regarding environmental risk, potential sources of environmental impact, and soil/groundwater management during future construction.

Environmental Due Diligence

Project Manager|
Confidential Client | Toronto, Ontario, Canada | 2016

Warren acts as the project manager for the completion of Phase I ESAs, Phase II ESAs, property condition assessments, remedial cost estimates, and risk evaluations for three industrial properties. GHD's client was considering the acquisition of the three properties, and required technical guidance regarding environmental liabilities, and options to mitigate environmental risks for the long-term use of the Site.

Lakeview Power Plant

Project Manager|
Ontario Power Generation | Mississauga, Ontario, Canada |
2015 - 2016

Warren acts as the project manager for ongoing environmental activities at the former OPG Lakeview Power Plant. GHD has completed extensive environmental investigations, focused environmental remediation, and Risk Assessment activities in support of OPG's land use and disposition planning. Currently supporting OPG's goals of facilitating the redevelopment of the Site in accordance with the Inspiration Lakeview vision.

Assembly Plant Demolition

Environmental Lead and QP$_{ESA}$ |
Ford | St.Thomas, Ontario | 2014 - 2016

Warren acted as the lead environmental site assessor and QPESA for the completion of Phase One and Two ESAs at the Ford St. Thomas facility. Obtained Record of Site Condition (RSC) for one portion of the Site, and supported GHD's Risk Assessment and Remediation teams in the assessment and remediation of the other portions of the Site.

Review of Excess Soil Management in Ontario

Team Member |
GHD | Ontario, Canada | 2015

Warren was a member of GHD's project team to complete a review of excess soil management in Ontario. Warren's role focused on identifying common practices, and best practices among contractors, municipalities, and government related agencies, to support the development of an improved process to manage excess soil in Ontario.

Risk Evaluation

Project Coordinator |
Confidential Client | Toronto | 2013 - 2014

Warren acted as project coordinator during a risk evaluation project, to support a potential property sale. His scope included coordinating access to an active facility, discussing the scope of work with potentially affected tenants, coordinating soil, groundwater, and indoor air monitoring activities, and reporting. The project team subsequently completed a risk evaluation, supported with Risk Management Measures developed by Warren and his team. The client was able to complete the transaction of the property, despite documented environmental liability concerns.

Risk Management Measure Implementation

Project Manager |
Confidential Client | Toronto, Ontario, Canada | 2010 - 2013

Project Manager for the oversight of Risk Management Measure (RMM) implementation, to comply with the requirements of a Certificate of Property Use. Activities completed by GHD included preparation of soil and groundwater management plan, preparation of Health and Safety Plan, dust monitoring, soil tracking, barrier construction inspection, and reporting. Warren acted as Project Manager and primary liaison for the client and their contractor, to ensure that the Certificate of Property Use requirements were understood and implemented.

Career history

2001 - present	GHD (formerly Conestoga Rovers & Associates), Toronto, ON, Engineer
2010	Named Associate
2017	Named Principal

Joseph Drader P. ENG., P.E.

Project Manager



Location

Ottawa, Ontario, Canada

Experience

22+ years

Qualifications/Accreditations

– Bachelor of Science in Chemical Engineering, 2000

Key technical skills

– Contaminant Assessment and Remediation
– Decommissioning Closure and Rehabilitation
– Designated Substance Surveys
– Emergency Response Assessments

Memberships

– Professional Engineers of Ontario
– Ottawa Area Chapter of Association of Consulting Engineering Companies

Relevant experience summary

Joseph is a senior engineer with over 22 years of experience in environmental engineering. Joseph has experience in Phase I and II Environmental Site Assessments (governed by Canadian and United States regulations); emergency response assessments, remediation, and investigations; construction supervision/inspection and contract administration for UST removal projects, remediation projects, and landfill projects; designate substance surveys; coordination of various monitoring programs (groundwater, surface water, air); and other environmental compliance assessments (noise, air, sewer). Joseph has also been the Quality System representative for the Ottawa office for 6 years (2009 2015) and is a former member of the Office Joint Health and Safety Committee.

Environmental Site Assessments

Phase I ESAs

Project Manager/Engineer |
Various | Ontario, Quebec, Manitoba, Saskatchewan, Northwest Territories, Canada and New York and Michigan, USA | 2005 - Present

Project Manager/Engineer for Phase I ESA inspections, research, and reporting in support of acquisition, divesture, due diligence, and regulatory requirements for over 90 industrial, commercial, municipal, and residential properties in Canada and USA. Other environmental compliance activities completed in conjunction with Phase I ESA include:

Phase II ESAs

Project Manager/Engineer |
Various | Ontario, Canada | 2005 - Present

Project Manager/Engineer for Phase II ESA programs and reporting in support of acquisition, divesture, due diligence, construction/redevelopment, and regulatory requirements for industrial, commercial, and residential properties including, but not limited to:

– Commercial/Vacant property in Ottawa, Ontario
– Transport facility and vacant property in Sudbury, Ontario
– Soil/Groundwater investigation of former UST area at quarry property in Renfrew, Ontario
– Groundwater investigation at former gas station property in Mississauga, Ontario
– Former gas station property in Kemptville, Ontario
– Former residential/parking lot property in Ottawa, Ontario
– Groundwater investigation at residential apartment building with former adjacent dry cleaning operations in Ottawa, Ontario
– Residential apartment building with historic industrial activities in Ottawa, Ontario
– Former industrial properties in Belleville, Ontario
– Office building property (former UST) in Ottawa, Ontario

Phase II ESA activities included development of sampling plans and health & safety plans, along with coordination and implementation of utility locates, test pit and drilling activities, monitoring well installation, soil &

groundwater sampling and monitoring activities, analytical results review & interpretation, and client & regulatory reporting.

Project experience – Environmental Investigation, Remediation, and Risk Management

Leaking UST

Senior Engineer/Advisor |
CAI Inc. | Prescott, Ontario, Canada | 2019

Senior Engineer/Advisor for an environmental assessment and remediation of a potentially leaking underground storage tank containing heptane at a coatings, adhesives, and inks manufacturing facility. Responsibilities include:

- Coordination of groundwater and sewer sampling program along with analytical results review and reporting
- Budgetary estimates for remediation of heptane impact, as well as new tank farm design
- General consulting services with client and regulator

Hawkesbury Lagoon Landfill Site

Project Manager/Engineer |
MNRF | Hawkesbury, Ontario, Canada |
2014 - 2020

Project Engineer (later Manager) for the groundwater, leachate, and surface water monitoring program at a former pulp and paper site that is under remediation (lagoon sludge material transferred to landfill constructed on-Site). Responsibilities include coordination of monthly/quarterly groundwater, leachate, and surface water sampling events; advisor for drilling program for new monitoring wells installed within and outside landfill; assessment of hydrogeologic conditions; assessment of sample analytical data to regulatory trigger limits; implementation of applicable corrective action activities; and annual reporting to regulatory requirements. Other responsibilities included ECA amendment application, meeting with MECP, and leachate removal activities.

Waste Oil Tank and Vault Decommissioning

Project Manager/Engineer |
City of Ottawa | Ottawa, Ontario, Canada |
2014 - 2015

Project Manager/Engineer for the environmental assessment and decommissioning of an underground vault and former waste oil tank at the Lemieux Island Water Purification Plant. Responsibilities include:

- Development of a subsurface investigation program (soil and groundwater) in the vicinity of the vault
- Development of detailed design and technical specifications for the tank removal, vault decommissioning, and impacted soil removal
- Tender support, contract administration, and liaison between contractor and City
- Soil and groundwater sample data assessment and closure reporting

Former Amoco Fabrics and Fibers Facility

Project Engineer |
HCISPA | Hawkesbury, Ontario, Canada |
2009 - 2011; 2017 - Ongoing

Project Engineer and Contract Administrator for source removal/remediation activities of former yarn waste area and former sludge lagoon area. Responsibilities include:

- Development of detailed design and technical specification for excavation of yarn waste disposal area and excavation/in-situ chemical oxidation (ISCO) treatment of former sludge lagoon area
- Tender support, contract administration, and liaison between contractor and client
- Soil and groundwater data assessment and reporting of remediation activities

As of 2017, Project Engineer for development of technical specifications for demolition of on-Site treatment system and structures, as well as completion of a due diligence risk assessment (DDRA) for property redevelopment and sale. As of 2018, Project Manager for semi-annual groundwater monitoring program with annual reporting to regulatory agency, along with installation of new monitoring wells. Additional responsibilities included environmental advisor for property redevelopment, ECA application documents.

Implementation of Risk Management Plan

Project Manager/Engineer |
Sakto Corporation | Ottawa, Ontario, Canada |
2008 - Ongoing

Joseph is project manager and engineer for implementation of Risk Management Plan (RMP) at a residential/office building complex, where historic dry cleaning operations impacted groundwater at on and off-site properties. Responsibilities include:

- Assessment of quarterly and semi-annual groundwater and ambient air sampling data
- Annual reporting to City of Ottawa and MOECC
- Coordination and reporting of monthly effluent sampling from a groundwater pre-treatment system (air stripper) to City of Ottawa sanitary sewer (dewatering of 4-storey underground garage)

Based on consistent and/or decreasing groundwater VOC concentrations, the groundwater and air sampling have been reduced to annual events and annual summary reporting.

Former Industrial Facility

Project Manager/Engineer |
Metso Minerals Canada | Belleville, Ontario, Canada | 2010 - 2019

Project Engineer (later Manager) for due diligence activities completed at former mining equipment manufacturing facility with 11 structures constructed between 1915 and 1990. Scope and responsibilities included:

- Project Engineer for Phase I and II ESAs, along with budgetary estimates for risk assessments, demolition, remediation efforts, etc. as part of client divesture of the property
- Project Manager and Engineer for Designated Substance and Hazardous Material survey and reporting
- Project Manager and Engineer for development of design drawings and specifications for the building abatement and demolition activities
- Project Manager for tender support, construction inspection, and contract administration services associated with abatement/demolition

Emergency Spill Response

Industrial Facility

Project Manager/Engineer |
DEW Engineering & Development | Ottawa, Ontario, Canada | 2019

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a zinc phosphate solution release affecting Site and adjacent property. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Residential Fuel Oil Spill

Project Manager/Engineer |
Private Resident | Ottawa, Ontario, Canada | 2019

Project Manager/Engineer for completion of initial assessment and subsequent remediation coordination for a fuel oil spill at a private residence. Responsibilities included:

- Coordination of initial assessment/reporting of fuel oil impact and subsequent investigation/sampling to determine extent of impact
- Coordination for soil remediation (excavation) at Site
- Spill closure reporting

Highway 401 Truck Accident

Project Manager/Engineer |
TransForce | Joyceville, Ontario, Canada | 2018

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a diesel fuel spill off Highway 401. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Incident Assessment and Remediation Coordination - Highway 417 Truck Accident

Project Engineer |
TransForce | Ottawa, Ontario, Canada | 2015

Project Engineer for completion of initial assessment and subsequent remediation coordination for a truck accident that spilled diesel fuel on the highway median. Initial assessment responsibilities included waste contractor coordination (drum removal), collection of incident details, soil sampling of impacted area (delineation and waste disposal purposes), as well as reporting incident to the MOECC Spills Action Centre. Remediation coordination responsibilities included contractor procurement and scheduling (traffic control, remediation, landfill, and laboratory). Work completed at night based on incident location and MTO encroachment permit.

Career history

2001 - present	GHD, Project Manager/Engineer (Ottawa, Ontario; and Plymouth, Michigan)

Kevin Emenau B.Sc.,P. Geo.

Team Leader



Location

Ottawa, Ontario, Canada

Experience

34 years

Qualifications/Accreditations

- Bachelor of Science Specialization in Geology, 1986
- Certification in Occupational Health & Safety, Ryerson University, 2006

Key technical skills

- Due Diligence, Risk management
- Client Contract Administration
- Technical Peer Review
- Environmental Site Management
- Project Management
- Contaminated Site Management

Memberships

- Association of Professional Engineers and Geoscientists of New Brunswick (APEGNB)
- Association of Professional Geoscientists of Nova Scotia (APGNS)
- Association of Professional Geoscientists of Ontario (APGO Membership No. 3120)

Relevant experience summary

Kevin is a Team Leader in the Contaminated Sites and Remediation group based out of the Ottawa office, working in the environmental sector since 1987. Kevin has work experience in a variety of environmental, mining and water resource sectors including Phase I and Phase II environmental assessments and remediation projects for a variety of contaminants. Kevin's typical responsibilities include contract management: overall project supervision, client, contractor and regulator liaison, reporting, and budget control. Kevin has been a senior project manager of over 500 environmental site assessments and petroleum hydrocarbon remediation projects throughout NS, NB, Ontario, Quebec, and PEI involving retail petroleum and bulk petroleum storage facilities, refineries, marine terminals, various residential/commercial/industrial facilities, and emergency spill sites. Project components have included: Hazardous materials surveys, soil vapour and air quality surveys, development of intrusive assessment and sampling programs, aquifer analysis and contaminant plume delineation, quantitative risk assessments utilizing the Atlantic Risk Based Corrective Action (RBCA) process, development and implementation of remedial action plans, site monitoring and closure activities and liaison with regulatory agencies.

Environmental Assessments

Various National Capital Commission (NCC) Properties

Project Director |
National Capital Commission | Ottawa, Ontario, Canada | 2019-2022

Acted as Project Director for Phase 1 and 2 Environmental Site Assessments and Due Diligence Risk Assessments (DDRA) at NCC properties Westboro Beach, Wellington Monument, and ongoing projects at CFB Rockcliffe Park, Kizell Wetlands. Projects completed as part of existing 4 year MSA agreement with NCC.

Various Small Craft Harbours - Marine Sediment Sampling/Human Health & Ecological Risk Assessments

Senior Peer Review |
PSPC | Newfoundland, Canada | 2019-2021

As peer reviewer Kevin completed historical document reviews, and technical reviews of marine sediment and biota sampling programs for over four small craft harbour properties for PSPC, on behalf of Fisheries and Oceans Canada. The main objective of the programs was to assess whether contaminants of potential concern in harbour sediment pose potential unacceptable risks to human and ecological receptors as compared to current and appropriate environmental guidelines. Marine sampling included bulk marine

sediment for chemical analysis, taxonomic evaluation of the benthic invertebrate community and chemical analysis of invertebrate tissue, with report preparation.

Metro Transit Bus Depot Remediation

Project Principal |
Halifax Regional Municipality | Dartmouth, Nova Scotia, Canada | 2014-2016

Managed emergency response services associated with a significant diesel release at a Metro Transit Bus Depot. Responsibilities included: remedial plan implementation, removal, replacement and testing of 230 metres (m) of waterline and site restoration; 8000 tonnes of source removal excavation with groundwater treatment and third party offsite impact consideration. Project completed while maintaining 24 hour a day transit operation. Involved with contract administration and construction oversight, as well as managing client and regulatory expectations, and off-site third party Department of Transportation concerns. Project was closely peer reviewed for insurance and legal subrogation purposes, and involved preparing for legal discovery hearings.

Emergency Response Remediation - Various Locations

Project Director |
Various Insurance Companies | Various Locations, Nova Scotia, New Brunswick, Quebec, and Ontario Canada | 2012-2022

On-site assessment and remediation work of commercial and residential fuel oil releases, chemical releases, and vehicle incidents at over 140 sites/properties. The projects involved managing a multi-discipline oriented group of consultants, subcontractors, as well as insurance adjusters (TD, Allstate, Aviva, CMHC) and property owner expectations. Site work often includes assessment and identification of the contaminant pathway, third party receptor impacts and typically excavation of the source contaminant from an adjacent residence or structure. Projects or claims often involve onsite construction oversight, structural assessments, confirmation soil and groundwater, potable water and soil vapour sampling, geotechnical reinstatement expertise and regulatory closure reporting. Excellent supervisory and communication skills, attention to detail as well as exposure to insurance and subrogation policies have led to repeat GHD insurance and private sector emergency response work.

Soil and Groundwater Investigations - Various Locations

Project Principal |
Irving Oil, Shell Canada, Suncor | Various Locations in Atlantic Canada, Ontario | 2010-2021

Phase I and II Environmental Site Assessments (ESAs) and remedial implementations at numerous petroleum company facilities both active and decommissioned throughout Atlantic Canada. The ESAs predominantly dealt with petroleum hydrocarbons, heavy metals, and PAHs with off site assessment for delineation purposes. The analytical results were compared to Tier I, II, or III screening levels as well as the applicable CCME target levels and ecological benchmarks. Projects involve communication with the regulators, third party property owners and discussions with the client to agree on practical and effective remedial solutions which achieve an end goal of regulatory closure. This mitigates the contaminant risk and creates the subsequent potential for re-sale and property development.

Emergency Response, Acid Release Investigation, Mitigation

Project Principal |
Baker Hughes | Dartmouth, Nova Scotia, Canada | 2015-2016

Managed the response assessment, mitigation, and onsite remedial work to address a hydrochloric acid release at a Baker Hughes offshore supply facility in Burnside Park, Dartmouth. Project involved immediate chemical containment, neutralization with a soda ash and removal of the excess liquid acid, while securing the area, and informing employees and building occupants of the required safety requirements associated with the chemical cleanup. The site was assessed and remediated in accordance with the Nova Scotia Environmental Emergency Regulations, under the Environment Act, under close communication with the client and local regulatory authorities.

Historic Fuel Oil Release Investigation and Regulatory File Closure

Project Principal |
CMHC | Pictou Landing, Nova Scotia, Canada | 2014-2016

Senior Project Manager, involved with reviewing a historic residential fuel oil release file from 1998, and agreeing on a path forward with client, CMHC and local regulatory office. Project involved assessing multi-level monitor well bedrock installations, contaminant characteristics in the sedimentary bedrock, and completing a 72 hour pump test to confirm the lower drinking water aquifer was not impacted. Regulatory closure was achieved with institutional controls for the

property, including a restrictive potable well exclusion zone for the property.

Soil and Groundwater Investigation - Petroleum Refinery Site

Project Principal |
Imperial Oil Ltd. | Nova Scotia, Canada | 2012-2014

Assisted with the management of an environmental project at a petroleum refinery. The work included a Phase I review of historical activities on the property and a Hazmat survey to identify areas of potential environmental concerns and contaminants of concern. The prioritized areas were then investigated through a Phase II drilling program during which soil and groundwater samples were collected and analyzed for BTEX, TPH, MTBE, PCBs, PAHs, VOCs, and metals. An ecological evaluation was also completed as the refinery is located near a marine harbor. The data was then screened against pathway specific criteria for both human health and ecological receptors and an action plan was developed and implemented to address potential issues identified. The plan included groundwater remediation activities, soil vapour assessment, and specialized low flow sampling at selected locations.

Contaminant Investigation - CPR Railyard

Project Hydrogeologist |
Canadian Pacific Railway (CPR) |
McAdam, New Brunswick, Canada | 2000-2001

Project Hydrogeologist for a detailed Phase II ESA at a CPR railway facility in McAdam New Brunswick. The assessment included a geophysical component, multi-level well installations for detailed hydrogeological contaminant delineation, D-NAPL modelling, reporting, risk management and remedial option design. Project assessment and remediation was associated with petroleum hydrocarbon, and VOC (perchloroethylene) historic investigation work.

Ordnance Assessment and Geophysical Investigation - CFB Tracadie Bombing Range

Project Hydrogeologist |
Department National Defence (DND) |
New Brunswick, Canada | 1998-2002

Project Hydrogeologist for Phase II ESA at Cap Blanc, CFB Chatham Bombing Range in Tracadie New Brunswick. Involved GIS grid mapping, geophysics for anomaly investigation, test pitting, monitor well installations, waste and potential ordnance material characterization and remedial design/implementation. Program followed a rigorous QA/QC Health & Safety Plan developed by a UXO Ordnance Supervisor.

Replacement Water Supply

Project Hydrogeologist |
Irving Oil Ltd. | Boistown, New Brunswick, Canada | 2000-2001

Completed a groundwater quality survey and well replacement for three commercial properties impacted with gasoline contamination in Boisetown, New Brunswick. Work included bedrock aquifer pump testing, with time series sampling to confirm a reliable, consistent yielding water supply.

Hazardous Waste Investigation

Project Hydrogeologist |
Department Natural Resources |
Noonan, New Brunswick, Canada | 2001-2002

Project Hydrogeologist of a Phase II ESA at Natural Resources – Experimental Station in Noonan, New Brunswick. Investigation involved hazardous waste (pesticides, herbicides, solvents, PCB's) characterization, contaminant delineation, remedial option design including risk management and manifestation of hazardous materials.

Jet-A Fuel Release - Halifax Airport

Project Director |
Halifax Stanfield International Airport |
Enfield, Nova Scotia, Canada | 2018-2020

Acted as overall Project Director reviewing emergency spill response activities related to the release of Jet-A fuel from an underground fuel supply line. The project involved the containment and recovery of fuel from an adjacent watercourse, all civil works relating to locating the leak and execution of the fuel line repair, and remedial work. The project site is located within a restricted access area of the Halifax Airport, which required ongoing liaison with the airport authority and scheduling work with Transport Canada, and airport security protocols. The project also included an Environmental Site Assessment to assess soil and groundwater quality adjacent the fuel infrastructure.

Contaminant Investigation - DCC, Various Sites

Project Hydrogeologist |
Defence Construction Canada (DCC) | Various Sites, Nova Scotia, New Brunswick, and Ontario Canada | 2001-2010

Project Hydrogeologist, Contaminated Site Monitoring, DCC and Marlant, Various Sites in Nova Scotia; provided technical guidance for site programs involving groundwater, surface water, soil and sediment collection for hydrocarbon, metals, VOC's and PAH analysis, and respective site remediation cost benefit analysis.

Environmental Investigation - DCC, Various Sites

Project Hydrogeologist |
Defence Construction Canada (DCC) | Various Sites, Nova Scotia, Canada | 2002-2010

Project Hydrogeologist for environmental investigations of several Marlant sites. Objectives of investigations were to move sites towards closure under DND's Contaminated Sites Framework and involved supplemental site investigations, contaminant identification/delineation, detailed qualitative risk assessments, risk assessment and/or remedial action.

Environmental Site Characterization - DND, CFB Base Chatham (30 Sites)

Project Hydrogeologist |
Department National Defence (DND) |
New Brunswick, Canada | 1998-2002

Project Hydrogeologist for environmental investigations of 30 sites at CFB Chatham, New Brunswick. The detailed investigations as part of the base closure, involved Phase I/II activity, contaminant identification/delineation, risk assessment, remedial action, and projected land management, as part of the base transfer of lands to the Province. Assessment work included an evaluation of the base production well(s) water supply and several experimental in-situ remedial investigation areas involving biopiles and phytoremediation cells.

Hydrogeological Study - Wellfield Assessment

Project Hydrogeologist |
Town of Shelburne | Nova Scotia, Canada | 2002

Managed a hydrogeological study for the Town of Shelburne that involved the drilling of three potential production wells, including new well site location, test drilling, well yield confirmation (125 gal/min high quality potable water), and securing the water quality testing to meet Canadian water quality standards.

Phased ESAs, Ecological Screening and Remediation - Former Coal Fired Generating Station

Senior Project Manager |
New Brunswick Power | Chatham, New Brunswick, Canada | 2003-2004

Phase I and II ESAs were completed at a former electrical power generating station in Chatham New Brunswick. The station included a diesel and Bunker C tank farm, transformer area, and a generation building. The assessment predominantly dealt with petroleum hydrocarbons, heavy metals, PAHs, and PCBs impacts in both soil and groundwater. The analytical results were compared to Tier I and II screening levels as well as the applicable CCME target levels. Some remedial activities were completed as part of the work (groundwater pump and treat system and selective soil excavation). Regulatory closure was obtained on a Tier II risk assessment basis, saving our client hundreds of thousands of dollars in remediation costs.

Spill Response

Senior Project Manager |
Various | Nova Scotia, Canada | 2006-2011

Project Manager of over 25 commercial and industrial emergency response programs associated with diesel and chemical releases, on behalf of various insurance companies. Projects have involved the investigation and mitigation of vapours in buildings, removal of impacted soil, prevention of impact to environmental receptors, and the restoration of site conditions.

Peach Lake Agent Orange Investigation

Senior Project Manager |
Defense Construction Canada | Camp Aldershot, Nova Scotia, Canada | 2006-2008

Senior Project Manager responsible for planning and executing a geophysical survey and sediment investigation at an active firing range at a military training base in Nova Scotia. A UXO survey was completed concurrent with sediment sampling in the lake. The geophysical and sediment quality data allowed the client to demonstrate that allegations of disposal of chemical defoliant into the lake in the 1960s were false. Close client and regulatory communication was critical to this successful project completion.

Trans Maritime Pipeline Route Investigation

Senior Project Manager |
National Energy Board | Atlantic Canada | 2002-2004

Project Hydrogeologist for the Trans Maritime Pipeline Application for the National Energy Board. Responsible for evaluating geology and hydrologic resources along a potential gas transmission route through Nova Scotia and New Brunswick. Tasks included detailed baseline data collection (land use, soil/bedrock mapping, water supply/watershed identification), pipeline routing, GIS constraint mapping, impact assessment, mitigation recommendations and residual affects assessment.

Phased ESAs - Canadian National Rail Yards

Senior Project Manager |
CN Rail | Atlantic Canada | 1998-2005

Project Manager for Phase II/III ESAs at former and active CN rail yard sites in Moncton, New Brunswick (Gordon Yard and the Lower Moncton Yard); Campbellton, New Brunswick; Saint Basile, New Brunswick; and Sydney, New Brunswick between 1998

and 2005. The sites were typically assessed for hydrocarbons, PAH, and heavy metal impact. A human health risk assessment and remedial action planning was subsequently completed on several sites within the Lower Moncton Yard. During this time period, numerous Phase I and II ESAs at various CN Real Estate properties throughout Nova Scotia and New Brunswick were completed. Hazardous material surveys were completed at several site buildings prior to renovation/demolition activities.

Environmental Impact Assessment

Project Manager |
Transport Canada | Atlantic Canada | 1997-2003

Project Manager for Environmental Baseline Studies at the Saint John, Fredericton, Moncton, and Halifax airport (Transport Canada). Investigations included Phase I audits of all airport tenants, Phase II and III intrusive investigations, geophysical assessments, risk assessment and remedial action plan cost benefit analysis.

University Educational Instructor

Environmental Course Instruction

Instructor |
College of Continuing Education, Dalhousie University | Halifax, Nova Scotia, Canada | 2009-2015

Developed and instructed a Phased Management of Environmental Site Assessment Course for Dalhousie University College of Continuing Education.

Environmental Workshop Instruction

Instructor |
College of Continuing Education, Dalhousie University | Halifax, Nova Scotia, Canada | 2009-2015

Developed and instructed workshops on the overview of Regulatory Framework for Contaminated Sites, providing an understanding of both provincial and federal regulations.

Senior Technical Advisor

McNab's Island

Senior Technical Advisor |
Parks Canada | Halifax, Nova Scotia, Canada | 2008-2009

Assisted in designing a work plan and provided technical support for a Phase II Environmental Site Assessment of a former bulk fueling facility. Kevin provided technical support for the soil and groundwater remediation project and post remediation groundwater monitoring. This project was completed on an island in Halifax Harbour during the winter, which presented challenging logistical conditions. Successful completion of this project enabled the client to transfer ownership of the property to the province.

Building Science/Due Diligence

Building Conditions Audits

Principal In Charge |
Various | City of Kingston and Ottawa Region, Ontario, Canada | 2017-2018

Recently awarded, Building Condition Audits (BCAs) for 13 Corporations consisting of 62 properties (753 Units) in the Kingston and Ottawa area. Work involved site assessments, reporting and capital planning of low and high-rise housing over a 30-year investment horizon. Duties also included asset management, scheduling, reporting and liaison with senior municipal personnel.

Building Conditions Audits and Designated Substance Surveys

Principal In Charge |
Town of Penetanguishene | Penetanguishene, Ontario, Canada | 2018-2020

BCA and Designated Substance Survey (DSS) for 16 town facilities including Town Hall, Tourist Information Centre, Museum, Curling Club, Library, Public Works Buildings, Parks & Utility Buildings. Work conducted as part of Ontario Regulation 588 to determine the asset condition, year, and ongoing cycle of asset replacement; and to provide recommendations and order-of-magnitude costing in 20-year capital expenditure tables.

Designated Substance Survey

Designated Substance Surveys and Hazardous Building Materials Assessment

Project Director |
Various | Ottawa, Pembroke, Southeastern, Ontario, Canada | 2017-2018

Project Director for asbestos containing material (ACM) surveys, DSSs, Hazardous Building Materials Assessments (HBMAs) or mould assessments at the following sites:

- DSSs at various municipal facilities for the City of Pembroke, Pembroke, Ontario. Preparation of Asbestos Management Plan.
- HBMAs at various institutional buildings for the Catholic District School Board of Eastern Ontario, Southeastern Ontario.
- DSSs and ACM surveys at various residential buildings (dwellings and apartment buildings) for private residential clients, Ottawa, Ontario.

Career history

2017 to Present	GHD, Principal (Ottawa , ON)
2015 - 2017	GHD, Associate/Principal (Halifax, Nova Scotia)
2005 - 2015	Conestoga Rovers & Associates, Associate (Halifax, Nova Scotia)
1997 - 2004	Dillon Consulting, Associate, (Moncton, Nova Scotia)
1992 - 1997	Dillon Consulting, Project Manager, (Fredericton, New Brunswick)
1990 - 1992	CMPS Engineering, Project Geologist, (Sydney, Australia)
1988 - 1990	Porter Dillon Consulting Ltd., Project Scientist, (Halifax, Nova Scotia)
1986 - 1988	Northgate Exploration, Mining Geologist, (Toronto, Ontario)

Appendix B

Previous Environmental Reports

Phase One Environmental Site Assessment

600 March Road, Kanata (Ottawa), Ontario

Nokia Canada Inc.

April 20, 2022

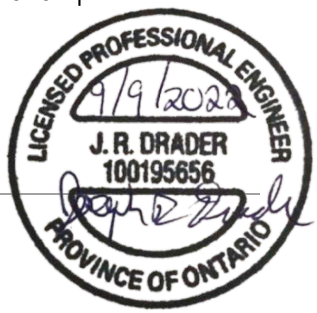
→ The Power of Commitment



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			Name	Signature	Name	Signature	Date
S3	00	Joseph Drader, P.Eng.	Kevin Emenau, P. Geo.	*On File	Joseph Drader, P. Eng.	*On File	March 15, 2022
S4	01	Joseph Drader, P.Eng.	Kevin Emenau, P. Geo.		Joseph Drader, P. Eng.		April 20, 2022
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1. Executive Summary

GHD Limited (GHD) was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase One Property. The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 10.39 hectares (ha) (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 square metres [m^2] of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas. The Phase One Property is currently owned by Nokia and is used for office and research/development activities. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The Phase One ESA was conducted in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 – Record of Site Condition (O. Reg. 153/04), as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in O. Reg. 153/04.

It is GHD's understanding that Nokia intends to amend the zoning of the Phase One Property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 - RSC, as applicable.

The Phase One ESA was conducted by Mr. Joseph Drader and was reviewed by Mr. Kevin Emenau, both of GHD. Mr. Drader is Qualified Persons as defined with O. Reg. 153/04. The qualifications of Mr. Drader and Mr. Emenau are presented in **Appendix A**.

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site.

1. **Adjacent Manufacturing Operations |** Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.
2. **Surrounding Dry Cleaning Operations |** The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2**.
3. **Surrounding Historic Landfill |** The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 kilometres [km] from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3**.
4. **Surrounding Manufacturing Operations |** Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at

603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**

5. **Site Diesel Generator/Tank Operations |** Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is required to characterize soil and groundwater quality at the Phase One Property before a RSC can be filled with the MECP. The Phase Two ESA should evaluate the presence or absence of soil or groundwater impact to the Site from all identified APECs.

2. Introduction

2.1 Phase One ESA Property Information

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase One Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase One Property. A Site Location Map and a Site Plan are provided on **Figure 1** and **Figure 2**, respectively.

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas. The Phase One Property is currently used for office and research/development activities. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa. A legal survey of the Phase One Property is provided in **Appendix B**.

The Site contains five parcels with the following property identification numbers (PINs) and descriptions:

– 04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.
– 04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.
– 04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.
– 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
– 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

The Site is currently owned by Nokia Canada Inc. Contact information for the client representative is listed below:

Mr. Aaron Clodd, Director, Development Management Strategy & Consulting Group
Colliers
181 Bay Street, Suite 1400
Toronto, Ontario M5J 2V1

Phone: (905) 960-4506
Email: aaron.clodd@colliers.com

3. Scope of Investigation

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04, as amended. The purpose of the Phase One ESA is to identify, through a non-intrusive investigation, the existence of any PCAs and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in O. Reg. 153/04.

It is GHD's understanding that Nokia intends to amend the zoning of the Phase One Property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building and the potential to add more underground basement levels subject to the bedrock depth. The Phase One ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 - RSC, as applicable.

The following tasks were conducted as part of the Phase One ESA:

- Review of an electronic environmental database search of federal, provincial, and private source databases.
- Review of Phase One Property title records.
- Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, regional geological information, and previous environmental reports.
- Review of past and current Phase One Property usage and adjacent property occupancy.
- Examination of the facilities, equipment, utility services, operations, and associated records for the Site.
- Observations of any conditions that represented potential environmental concerns.
- Review of chemical use and storage, and spill/release incidents.
- Review of aboveground and underground storage tank records.
- Review of waste handling, accumulation, storage, and disposal practices.
- Review of air emissions and wastewater discharges.
- Review of equipment that potentially contains chlorofluorocarbons.
- Review of equipment that potentially contains polychlorinated biphenyls.
- Observations of potential lead-based paint.
- Observations of potential asbestos-containing materials.
- Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs and APECs associated with the Site. PCAs and APECs are defined in O. Reg. 153/04. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows.

3.1 Limitations

This report has been prepared by GHD for Nokia and Colliers, and may only be used and relied on by Nokia and Colliers for the purpose agreed between GHD and Client (Nokia).

GHD otherwise disclaims responsibility to any person other than the Client arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

4. Records Review

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Study Area included all properties located wholly or partially within 250 metres (m) of the boundary of the Site, as required by O. Reg. 153/04. This area has been determined by GHD to be a sufficient study area since PCAs and/or APECs located beyond 250 m from the Site will not likely adversely impact the Property.

The adjacent and surrounding properties within the Phase One Study Area were visually inspected from the Site and/or nearby streets, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the surrounding properties within the Phase One Study Area that were visible from applicable streets.

Along with various residential, commercial, and vacant properties located within the Phase One Study Area, a couple business park areas (known as the Kanata Research Park and Kanata North Technology Park) were identified. Although various potential technology and/or research manufacturing may be conducted on the interior of these buildings/properties, the exterior of many of the buildings/properties appeared to be operated solely as offices with no apparent manufacturing being conducted based on GHD's visual inspection, unless as noted below. Details from the other Records Review documentation may identify actual/potential PCAs and/or APECs at these properties based on operations/details provided in those sections.

Information regarding adjacent/surrounding properties within the Phase One Study Area are noted below:

North

The Site is bound to the north by Terry Fox Drive, beyond which are the following properties:

– Wooded area (north) and strip mall property (northeast) at 700 March Road with offices (Scotia Bank, dental, optometry, and physio), stores (convenience market, barber, video games, and cleaners [no dry cleaning observed]) and restaurants (Burger King, Subway, Chinese Food, Barley Mow) to the north.
– Residential development to the north (off McKinley Drive) and to the northwest beyond intersection of March Road and Terry Fox Drive.
– Beyond the commercial property to the north is a vacant, wooded property, followed by a Shell gas station with car wash building at 720 March Road.
– Beyond wooded area to the northeast are office buildings at 360 and 362 Terry Fox Drive (Artaflex [integrated electronics services] and B.J. Kane Electric Ltd [commercial and industrial electrical services], respectively).

West

The Site is bound to the west by March Road, beyond which are the following properties (north to south):

– Office buildings at 603 March Road and 375 Terry Fox Drive (Renesas [microcontrollers, analog and power devices] and TalentLab [IT Recruiters]).
– Vacant, wooded property.
– Commercial strip mall property at 591 March Road; includes following businesses: insurance, veterinary hospital, restaurants, pet grooming and supplies, spa.
– Power Muscle & Fitness (Gym) property at 555 March Road.
– Commercial property (insurance company and medicine wellness centre) at 525 March Road.
– Office building at 88 Hines Road (Telemus [electric warfare systems] and CCI Antennas [wireless equipment]).
– Office buildings at 80 and 84 Hines Road (multiple businesses at both buildings).
– Royal Canadian Legion at 70 Hines Road.
– Office buildings at 505 March Road and 50 Hines Road (multiple businesses at both buildings).

South

The Site is bound to the south by the following properties:

– Office and possible manufacturing (Sanmina Corporation – Optical, RF/Microwave products) property at 500 March Road (adjacent).
– Vacant, wooded property with evidence of a creek running through it at 490 March Road.
– Office building at 3001 Solandt Road (flex [electronics services]).
– Office building at 40 Hines Road (Trend Micro [cybersecurity]; across March Road to the southwest).
– Office building at 495 March Road (multiple businesses; across March Road to the southwest).

East

The Site is bound to the east by Legget Drive, beyond which are the following properties (south to north):

– Office building at 425 Legget Drive (Innovapost, Avaya, Renaissance).
– Office building at 515 Legget Drive (multiple businesses).
– Brookstreet Hotel and Conference Center at 525 Legget Drive, beyond which is a golf course and stormwater ponds.
– Office building at 535 Legget Drive (multiple businesses).
– Office buildings at 555 Legget Drive (multiple businesses).
– Office building at 359 Terry Fox Drive (multiple businesses).

Based on GHD's observations during the Site inspection, the following PCAs and/or APECs were identified within the Phase One Study Area:

– The operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.
– GHD observed a Shell gas station at 720 March Road within the Phase One ESA Study Area to the north of the Site (approximately 225 m distance). The operation of gas station is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

4.1.2 First Developed Use Determination

Based on GHD's review of historical documents and information gathered from Site interviews, the Site was vacant and/used for agricultural purposes between 1930 and 1987. Construction of office buildings on the Site started around 1987, with additional buildings constructed up through 1997. Office and research/development operations have been conducted since 1987.

4.1.3 Fire Insurance Plans

Fire insurance plans assist in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements, and facility operations. No coverage for the Site and adjacent lands were found on existing fire insurance plans.

4.1.4 Chain of Title

GHD was provided chain of title search documentation for the Phase One Property from Colliers. A copy of the title search is provided in **Appendix C**.

Title search documents go back to 1988 which is an acceptable time period based on review of aerial photographs (refer to Section 4.3.1) and the Phase One Property having not been developed as of 1985. The results of the title search and deviations in ownership of the Site are summarized below.

	Year	Property Ownership
04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.		
	February 1988 to November 1988	Notice Agreements identified: – Regional Municipality of Ottawa-Carleton – Corporation of the City of Kanata – Kanata Hydro-Electric Commission
	November 1988 to October 2002	Newbridge Networks Corporation Additional Notice Agreements and Easements identified during this period: – Corporation of the City of Kanata – Kanata Hydro-Electric Commission (Easement) – Regional Municipality of Ottawa-Carleton – Kanata Research Park Corporation
	October 2002 to April 2013	Alcatel Canada Inc. Lease identified for Rogers Wireless Inc./Rogers Communication Inc.
	April 2013 to January 2022 (date of search)	Alcatel-Lucent Canada Inc.
04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.		
	April 1989 to March 2003	Newbridge Research Corporation (later Newbridge Networks Corporation as of September 1996 Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Regional Municipality of Ottawa-Carleton – Kanata Research Park Corporation Leases identified for Clearnet PCS Inc., Bell Mobility Inc., TM Mobile Inc, Telus Communications Inc.
	March 2003 to January 2022 (date of search)	Alcatel Canada Inc.

	Year	Property Ownership
04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.		
	February 1988 to April 1989	Notice Agreements identified: – Regional Municipality of Ottawa-Carleton – Corporation of the City of Kanata – Kanata Hydro-Electric Commission
	April 1989 to January 2022 (date of search)	Newbridge Research Corporation (later Newbridge Networks Corporation)
04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.		
	November 1994 to January 2022 (date of search)	Newbridge Networks Corporation Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Kanata Research Park Corporation
04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.		
	May 1996 to January 2022 (date of search)	Newbridge Networks Corporation (transfer from Minto Developments Inc.) Additional Notice Agreements identified during this period: – Corporation of the City of Kanata – Kanata Research Park Corporation

No PCAs or APECs were identified based on available chain of title information.

4.1.5 Historical City Directories

Historical city directories generally document the occupants of municipal addresses on a yearly basis. Typically, GHD would review historical city directories for the Phase One Study Area (250 m radius) at the National Archives of Canada in Ottawa, Ontario; however, the National Archives were closed at the date of this Phase One ESA report. Therefore, GHD did not complete its own city directory search, which represents a potential data gap in the historical documentation review.

GHD did contract Environmental Risk Information Services Ltd. (ERIS) to conduct a search of available city directory information in their databases. The limited ERIS City Directory report (due to "information inaccessible") is included in **Appendix D**. A summary of the available Phase One ESA Study Area addresses and businesses listed as provided by ERIS is noted below:

– 600 March Road (Site) was listed as Alcatel-Lucent in 2011, Alcatel Networks in 2001/02, and Newbridge Networks in 1996/1997 and 1992. Not listed in 2005/06.
– 555 March Road (west, across March Road) | Goodlife Fitness in 2011.
– 591 March Road (west, across March Road) | Royal Lepage (2011, 2005/06, 2001/02, 1996/97), Wine Craft (2011, 2001/02, 1996/97), Vet Hospital (2011, 2001/02, 1996/97, 1992), Bombay Masala (2011), Co-Operators (2011), Island Tanning (2001/02), Ashoka Indian Cuisine (2001/02), Appliance Experts (1996/97, 1992), Market Place (1996/97), Marchview Dry Cleaners (1996/97), Technology Brokers (1992), Bytes Donuts (1992).
– 603 March Road (west, across March Road) | Blair Networks in 2011. Not listed in 2005/06. Tundra Semi Conductor in 2001/02. Newbridge Networks in 1996/97 and 1992.
– 70 Hines Road (west, across March Road) | Canadian Legion in 2011 and 2005/06. PCL Constructors in 2001/02).
– 84 Hines Road (west, across March Road) | Certicom Corp (2011 and 2005/06), Irdeto Canada (2011), Sidense Corp (2011), Ashton Electronic Systems (2011), Arrow Electronics (2011), Psion Teklogix (2011), Metconnex Inc (2005/06), Colonnade Developments (2005/06), Taral Networks (2005/06), Telewatch Monitoring (2005/06), Cloakware Corp (2005/06), Sitecast Construction (2001/02).

– 88 Hines Road (west, across March Road) | Flexus Electronics (2011, 2005/06, 2001/02), Wescar Corp (2005/06), Telemus Inc. (2005/06, 2001/02), Arrow Electronics (2001/02).
– 95 Hines Road (west, across March Road and Hines Road) | Wescar Corp (2011, 2005/06, 2001/02, 1996/97), Value Added Solutions (2005/06, 2001/02), Omega Telemus (1996/97), I-Stat Canada (1996/1997).

Based on review of above city directory entries, the following PCAs and/or APECs were identified within the Phase One ESA Study Area:

– The operation of a dry cleaners at 591 March Road (Marchview Dry Cleaners; 1996/97 directory) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2.**

4.1.6 Environmental Reports

No previous environmental reports of the Phase One Property were available or provided to GHD.

GHD did review the report titled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" by Interra Technologies Ltd, dated July 1988, which provides the results of an inventory and preliminary assessment of 177 known former industrial sites in the City of Ottawa as of July 1988. Based on GHD's review, there is no coverage of the Site provided in this report.

4.2 Environmental Source Information

4.2.1 Regulatory Review

No concerns, complaints, notices of violation, or directives of an environmental nature issued against the Site by federal, provincial, or municipal environmental regulatory agencies have been disclosed to GHD.

Ministry of Environment, Conservation and Parks (MECP)

GHD submitted a request to the Ministry of Environment, Conservation and Parks (MECP) under the Freedom of Information (FOI) and Protection of Privacy Act relating to the Site. The requested information included environmental approvals, certificates and instruments maintained by the Ministry for the Site or for properties that may directly influence the environmental condition of the Site. A response from the MECP was received on September 7, 2022, with a copy of the MECP Record Release Letter included in **Appendix E**. The letter included the following documents:

– Waste Generator information for Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812; see Section 4.2.2 for additional waste class information).
– May 18, 2001 MECP Occurrence Report regarding MECP inspection to determine Alcatel's compliance with Regulation 347. It was reported that Alcatel stored subject wastes for more than 90 days without filing a waste storage report form as required. On June 22, 2001, MECP received the waste storage report form, and no further action required.
– July 12, 2001 MECP Occurrence Report to issue emergency manifest number for waste class #263A (waste poisonous solids nos "2 cyclohexyl-4, 6-dinitrophenol).
– August 14, 2001 MECP Occurrence Report to issue emergency manifest number for waste class #265L (liquid industrial waste "glue).

No PCAs or APECs were identified based on information provided in MECP documents.

City of Ottawa

A request was submitted to the City of Ottawa under the Historic Land Use Inventory (HLUI) database search relating to the Site and Phase One Study Area. A response from the City of Ottawa was received on February 24, 2022, with a

copy of the HLUI response included in **Appendix E**. The following PCAs and/or APECs were identified by GHD associated with the Site and Phase One Study Area:

Site

– Due to previous "Design and Manufacture of Digital Communication Products" comment under former Newbridge Networks Corp at the Site, these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings, therefore these operations were not identified as having the potential to contribute to an APEC at the Site.

North

– Due to previous "Design and manufacture blast mate seismographs and watch mate wandering patient systems" comment under Instantel Inc located northeast of the Site at 362 Terry Fox Drive (approximately 125 m distance), these operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– The "Semiconductors & Related Dives (Mfrs)" and "Electronic Equipment & Supplies-Mfrs" operations of API Filtran, API Technologies Corp, and ARTAFlex Inc. located northeast of the Site at 360 Terry Fox Drive (approximately 150 m distance) are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– The operation of a gasoline service station (Shell Canada Products) at 720 March Road located to the north of the Site (approximately 225 m distance) is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

West

– The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3.**

– The operation of dry cleaners at 591 March Road (Hillary's Dry Cleaners and Miller's Quality Dry Cleaners) to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2.**

– The "Semiconductors & Related Devices (Mfrs)" operations of XILINX Inc located west of the Site at 50 Hines Road (approximately 150 m distance) is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely and these operations were not identified as having the potential to contribute to an APEC at the Site.

South

– The "Electronic Equipment & Supplies-Mfrs" operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.

Technical Standards and Safety Authority (TSSA)

A request was submitted by GHD to the Technical Standards and Safety Authority (TSSA) to search their databases for any records of storage tanks at the Site and select properties within the Phase One Study Area. An email response was received from the TSSA on January 6 and 7, 2022, indicating that there were no records in their database indicating fuel storage tanks are at the Site or at subject addresses. A copy of the TSSA response is included in **Appendix E**.

4.2.2 Environmental Database Search

GHD contracted Environmental Risk Information Services Ltd. (ERIS) to conduct a search of available federal, provincial, and private environmental databases within the Phase One Study Area. Based on the location of the Site, the database searches were completed to assist in the identification of environmental conditions at the Site and on adjacent/surrounding properties. The complete database search report, which also identifies limitations associated with this information, is included in **Appendix F**.

Site

The Site was identified in the ERIS report to contain the following records:

– Scott's Manufacturing Directory (SCT) | Newbridge Network Corporation, Alcatel Canada, and Alcatel-Lucent Canada Inc. were identified with the following operations:
  - Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
  - Semiconductor and Other Electronic Component Manufacturing
  - Electronic Components, Not Elsewhere Classified
  - Computer and Peripheral Equipment Manufacturing
  - Telephone Apparatus Manufacturing
– O. Reg. 347 Waste Generators Summary (GEN): Alcatel Canada and Nokia Canada (both listed under Generator No. ON0044812 between 2000 and 2021) were identified as operating under the following waste classifications:
  - 112 – Acid Waste – Heavy Metals
  - 121 – Alkaline Wastes – Heavy Metals
  - 122 – Alkaline Wastes – Other Metals
  - 145 – Paint/Pigment/Coating Residues
  - 146 – Other Specified Inorganics
  - 148 – Inorganic Laboratory Chemicals
  - 212 – Aliphatic Solvents
  - 213 – Petroleum Distallates
  - 242 – Halogenated Pesticides
  - 252 – Waste Oils & Lubricants
  - 263 – Organic Laboratory Chemicals
  - 331 – Waste Compressed Gases

Due to above noted records, the Site operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, based on the Site interviews and inspection (refer to Sections 5 and 6, respectively), any manufacturing was limited to prototype devices (not mass production) and only limited quantities of chemicals and waste were stored in secure/contained portions of the Site buildings, therefore these operations were not identified as having the potential to contribute to an APEC at the Site.

Surrounding Properties

A summary of the pertinent findings from the ERIS database search for the surrounding properties within the Phase One Study Area is provided below.

– Sanmina Corporation on the adjacent property to the south at 500 March Road was identified in the GEN database, with operations noted as "semiconductor and other electronic component manufacturing", and Waste Generator No. ON5466737 (2016-2021) for various waste streams. In addition, two EASR records for SCI Brockville Corp at 528 March Road (same adjacent property as 500 March Road) identified a Standby Power System registered as of 8/25/2015 (fuel source not identified). The Sanmina operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.

– Miller's Quality Dry Cleaners at 591 March Road located west of the Site (across March Road) was identified in the GEN database with Waste Generator No. ON2095500 (1995-2001) for Waste Class 241 (halogenated solvents). These dry cleaning operations are identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2.**

– Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**

– Volex Capulum Inc/Volex Canada Inc, Sciemetric Instruments Inc, Filtran Limited, Emcon Emanation Control Ltd. at 360 Terry Fox Drive located northeast of the Site (approximately 150 m distance) were identified in the SCT and GEN databases with operations noted as "Semiconductors & Other Electronic Component Manufacturing", as well as other machinery, computer, device, wire/cable, and/or component manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– The operation of a gasoline service station (multiple names listed including Shell and Suncor) at 720 March Road located to the north of the Site (approximately 225 m distance) was listed in the FST, FSTH, SPL, CA, ECA, and DTNK databases, and is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.

– Excalibur Systems, DRS EW & Network Systems, and OneChip Photonics at 50 Hines Road located west of the Site (approximately 150 m distance) was identified in the SCT database with operations noted as "Semiconductors & Other Electronic Component Manufacturing" and/or other machinery and instruments manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Sidense Corp at 84 Hines Road located west of the Site (approximately 150 m distance) was identified in the SCT database with operations noted as "Semiconductors & Other Electronic Component Manufacturing". In addition, Telewatch Monitoring Services was identified with operations noted as "Computer and Peripheral Equipment Manufacturing". These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Flexus Electronics. Telemus Inc., 954050 Ontario Inc., and Ultra Electronics at 88 Hines Drive located west of the Site (approximately 150 m distance) were identified in the SCT and/or GEN databases with operations noted as

"Semiconductors & Other Electronic Component Manufacturing", as well as other machinery and/or instrument manufacturing. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and office building structure observed during the Site inspection, mass production is not likely, and these operations were not identified as having the potential to contribute to an APEC at the Site.

- Elcombe Systems Limited, Smart Technologies Inc., Sciemetric Instruments Inc., and Pleora Technologies Inc. at 359 Terry Fox Drive located east of the Site (approximately 150 m distance) were identified in the SCT and/or GEN database with operations noted as manufacturing of communication equipment, computer, semiconductor, device and/or other electrical component manufacturing. In addition, Newbridge Networks Corporation was listed as having Certificates of Approval (CA) for industrial air activities, as well as listed under the GEN database for various waste solvents. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- C-MAC Electronic System at 425 Legget Drive located southeast of the Site (approximately 125 m distance) was identified in the GEN database with operations noted as "Computer & Peripheral Equipment Mfg", as well as listed as handling various waste solvents, chemical, and oils. Solectron EMS Canada was identified in the SCT database with operations noted as "Semiconductor and Other Electronic Component Manufacturing". These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- Lockheed Canada Inc. and Lockheed Martin Canada Inc. at 3001 Solandt Road located south of the Site (approximately 150 m distance) were identified in the CA and ECA databases with approved/cancelled industrial air permits for paint spray booths and ovens. Under the SCT database Lockheed Martin Canada Inc. was listed with operations noted as "Semiconductor and Other Electronic Component Manufacturing" and other instrument manufacturing, as well as listed with "Aerospace Product and Parts Manufacturing" operations and having various waste solvent, paints, chemicals, and oils under the GEN database. These operations are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04. However, due to distance from the Site and groundwater flow direction to the south and/or east, these operations were not identified as having the potential to contribute to an APEC at the Site.
- A standby emergency diesel generator at 495 March Road located south of the Site (approximately 200 m distance) was listed in the CA database and is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site this operation was not identified as having the potential to contribute to an APEC at the Site.
- A spill of 30 litres of engine oil was reported in the SPL database at the intersection of Terry Fox and March Road (adjacent to the northwest of the Site) on September 1, 2010. Based on the quantity of spilled oil, it is unlikely this release will have adversely affected the Site.
- A spill of unknown quantity of diesel fuel was reported in the SPL and HINC databases at 515 Legget Drive (east of the Site, across Legget Drive) on November 13, 2008. The reason for the spill was unknown, but was cleaned with environmental impact not anticipated. It is unlikely this release will have adversely affected the Site.
- A spill of 150-250 litres of diesel fuel was reported in the SPL database at 70 Hines Road (Legion Branch 638; west of the Site, across March Road) on August 21, 2019. Rogers Communications was listed as client, with diesel released to ground due to cracked line (material failure – poor design/substandard material). Although clean-up not explicitly mentioned, it is unlikely this release will have adversely affected the Site.

4.3 Physical Setting

4.3.1 Aerial Photographs

Aerial photographs were reviewed to generally document the development of the Site and properties in the vicinity of the Site, and to identify the existence of any significant areas of actual or potential environmental concern at the Site. Aerial photographs of the Site and surrounding area reviewed by GHD included the years 1934, 1945, 1952, 1960, 1976, 1985, 1991, 1999, 2009, and 2019 (source: National Air Photo Library (NAPL); City of Ottawa geoOttawa website). Aerial photographs are provided in **Appendix G**.

Based on the history of the Site and the quantity and quality of the aerial imagery available for review, the selected time period between aerial photographs was determined to be suitable for the purposes of this Phase One ESA.

Year	Site	Neighbouring Properties
1930	The Site appears to be vacant (no buildings) or used for agricultural purposes.	March Road is located west of the Site. Neighbouring properties appear to either be vacant (no buildings) or used for agricultural purposes or occupied by residential dwellings.
1945, 1952, 1960, 1976, 1985	No significant changes in land use had occurred since 1930. Some surface disturbances were noted initially in 1976 photo (unknown purpose and unchanged as of 1985 photo).	No significant changes had occurred on the neighbouring properties since 1930, with the exception of the following: – New residential structure observed as of 1952 on adjacent property to the west (center). – Trails and new structure(s) observed in wooded area as of 1960 on adjacent property to the west (south). – New commercial structure observed as of 1976 on adjacent property to the west (north); expanded structure and parking areas observed on 1985 photo. – Hines Road to the west observed as of 1985 photo.
1991	New building structures (existing office buildings), driveways, and parking lots have been constructed on the northern half of the Site. Southern portion remains vacant.	Significant changes at neighboring properties have occurred as follows: – Terry Fox Drive (north) has been constructed, and Legget Drive (east) and McKinley Drive (north) are being constructed. – Two new commercial buildings with parking lots constructed to the northeast of the Site (one north and one south of Terry Fox Drive). – One new commercial building and parking lots constructed to the south of the Site. – Four new commercial buildings with parking lots constructed to the west of the Site across March Road. – A new housing development constructed to the northwest of the Site across intersection of March Road and Terry Fox Drive.
1999	New building structures (existing office buildings) have been constructed where 1991 parking lots were observed in the northern half of the Site, with additional driveways and parking observed. Large parking lots have been constructed on the southern half of the Site.	Significant changes at neighboring properties have occurred as follows: – New commercial buildings and parking have been constructed to the north of the Site across Terry Fox drive, as well as new residential development on east side of McKinley Drive. – A new commercial building with parking lots constructed to the northeast of the Site (north of Terry Fox Drive). – Two new office towers (linked by lower level building) with parking lots, as well signs of further construction, were observed to the east of the Site (across Legget Drive). – One new commercial building with parking lots constructed to the southeast of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed to the west of the Site across March Road.

Year	Site	Neighbouring Properties
2009	No significant changes have occurred with the property land use since 1999.	Significant changes at neighboring properties have occurred as follows: – Two new office towers, the Brookstreet Hotel with golf course and parking structure, and associated parking lots have been constructed to the east of the Site (across Legget Drive). – Three new commercial buildings with parking lots constructed west and southwest of the Site (across March Road). – A gas station has been constructed north of the Site along March Road.
2019	No significant changes have occurred with the property land use since 2009.	Significant changes at neighboring properties have occurred as follows: – One new commercial structure with parking lots constructed on the adjacent property to the east.

Based on GHD's review of the aerial photographs, the following PCAs and/or APECs were identified:

– The operation of a gasoline station along March Road located to the north of the Site (approximately 225 m distance) is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. However, due to distance from the Site and groundwater flow direction to the south and/or east, this operation was not identified as having the potential to contribute to an APEC at the Site.

No other PCAs or APECs were identified based on review of the aerial photographs.

4.3.2 Topography, Hydrology, and Geology

A Topographic map was reviewed from the Ontario Ministry of Natural Resources and Forestry. The mapping shows the topography at the Site and in the Phase One Study Area as relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. The Ottawa River is located approximately 3.2 km northeast from the Site limits. Generally, stormwater in the Phase One Study Area is anticipated to drain to municipal catch basins and by infiltration.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022; currently Draft), a Site investigation was carried out between January 28 and February 6, 2022 to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Ten boreholes were advanced at the Site to auger refusal and/or into bedrock, with four monitoring wells installed/sealed in bedrock and one monitoring well installed in the overburden soil. A summary of applicable subsurface conditions is noted below:

– Topsoil (organic material with rootlets), and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.9 metres below ground surface (mBGS). Silty clay to clay deposit was encountered below topsoil or subbase material.
– Auger refusal (presumed bedrock) was encountered at depths ranging from 0.4 to 3.6 mBGS in all boreholes.
– Groundwater was not encountered in the overburden stratigraphy.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 metres above mean sea level (mAMSL) on February 9, 2022. The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook (actual direction could not be confirmed based on well locations and dry well conditions). It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.

4.3.3 Fill Materials

Based on review of aerial photographs, observations made by GHD during the Site inspection, and subsurface conditions documented in the 2022 GHD Geotechnical and Hydrogeological Investigation Report (refer to Section 4.3.2), fill material at the Phase One Property is limited to granular material associated with the construction of the Site buildings and parking lot.

4.3.4 Water Bodies and Areas of Natural Significance

There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The closest significant surface water body is the Ottawa River located approximately 3.2 km northeast of the Site.

In accordance with O. Reg. 153/04, an "area of natural significance" is defined as any of the following:

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance.
3. A wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species.
7. An area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A summary of GHD's review is provided below:

1. The Site is not an area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. The Site is not considered to be an area of natural and scientific interest (life science or earth science) as identified by the Ministry of Natural Resources as having provincial significance.
3. The Site is not a wetland identified by the Ministry of Natural Resources and Forestry as having provincial significance.
4. The Site is not designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. The Site is not an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. The Site is not an area identified by the Ministry of Natural Resources and Forestry as significant habitat of a threatened or endangered species. GHD conducted a search to determine if threatened or endangered species are present within or adjacent to the Site. According to the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), Species at Risk in Ontario (SARO), and the Ontario Ministry of Natural Resources and Forestry (MNRF), no species were listed as threatened and/or endangered within the Phase One Study Area.
7. The Site is not an area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. The Site is not located within an area designated as part of the Oak Ridges Moraine natural core area or natural linkage area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.

9. The Site is not an area set apart as a wilderness area under the Wilderness Areas Act.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

4.3.5 Well Records

A search of the MECP Water Well Information System database was conducted as a component of the ERIS database search outlined in Section 4.2.2. No monitoring wells were registered on the Site. Eight wells were registered in the surrounding properties including:

– Four domestic water supply well and one industrial supply well installed to the west of the Site (across March Road) between 1952 and 1969.
– One test hole installed to the south of the Site (across March Road) in 2010.
– One test hole installed to the west of the Site (across March Road) in 2014.
– One domestic water supply well installed to the south of the Site (3001 Solandt) in 2017.

The Phase One Property is currently located in an area municipally serviced with potable water. The current status of these wells is unknown.

4.3.6 Site Operating Records

No Site operating records were not provided to GHD as part of the Phase One ESA.

5. Interviews

As part of the Phase One ESA site inspection, GHD interviewed Mr. Wayne Carroll (Building Operations Manager) on January 27, 2022 (Site Representative). Mr. Carroll has been familiar with the Site and associated Site operations for approximately 30 years.

The interview completed with the Site Representative was focused on the historical and current use of the Phase One Property, and the topics listed in Sections 13 and 14 of Schedule D of O. Reg. 153/04. Relevant information provided to GHD by those interviewed has been summarized in applicable sections of Section 6 – Site Reconnaissance.

6. Site Reconnaissance

6.1 General Requirements

On January 27, 2022, Mr. Joseph Drader of GHD conducted a Site reconnaissance visit of the Phase One Property between 9:00 a.m. and 2:00 p.m. Weather conditions were overcast with an approximate temperature of -20 to -10°C. The Site ground surfaces were covered in snow at the time of Site visit which prevented direct observation of the ground surface.

GHD was accompanied by Mr. Wayne Carroll during the Site visit (refer to Section 5).

Photographs from the Site visit are included in **Appendix H**.

6.2 Specific Observations at Phase One Property

6.2.1 Property and Building

The Phase One Property is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Phase One Property is approximately 10.39 ha (25.67 acres) in size and is irregular in shape. The Site is currently occupied with multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space) on the northern portion of the Site, and ground-level car parking (approximately 1,900 surface parking stalls) on the southern portion of the Site, along with access roads, other smaller parking lot areas, basketball court, and landscaped areas.

Details regarding each building on the Phase One Property is provided below:

– Corporate Building | constructed in 1987 with renovations/additions in 1996; three stories with small basement area.
– Tower 1 Building | constructed in 1989-91; six stories.
– Link 1 Building and Main Lobby Building | constructed in 1994; three stories.
– Tower 2 Building | constructed in 1994; six stories with basement garage level.
– Link 2 Building | constructed in 1997; three stories.
– Tower 3 Building | constructed in 1997; ten stories.
– Hydro Vault and Diesel Generator buildings in the northeast portion of the Property (one story).

The buildings are typically of concrete construction with brick and glass exterior façade. Interior finishes are typically constructed of carpet/tile/concrete flooring, drywall walls and ceilings, and drop acoustic ceiling tiles. The building foundations are typically on-grade concrete slabs, with basement foundations in Front Main Lobby.

6.2.2 Current Site Operations

The Phase One Property is currently used for office and research/development/testing (computer/server labs) activities. Other ancillary operations conducted at the Site include:

– Kitchens and cafeterias, including former Tim Hortons operations.
– Maintenance and loading areas.
– Penthouse roof structures for air handling equipment, elevator machine rooms, and other building operations.
– Three Hydro Ottawa transformer rooms/areas and various electrical rooms throughout the buildings.

Prior to the Nokia owning/operating the Phase One Property, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent.

6.2.3 Historical Site Operations

Based on a review of the historical records for the Site, the Site was historically vacant or utilized for agricultural purposes.

6.2.4 Utility Services

The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The buildings are heated by electric forced air, radiant, and baseboard heaters.

The Site is serviced with natural gas provided by Enbridge for humidification units, kitchen appliances, and water heaters.

The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catchbasins in parking lot and driveways, as well as from other surrounding properties.

The Site Representative was not aware of any historical utility and/or water services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

6.2.5 Underground Storage Tanks (USTs)

No underground storage tanks or evidence of previously existing USTs were observed by GHD at the time of the Site inspection. The Site Representative was not aware of any current or historic USTs.

6.2.6 Above Ground Storage Tanks (ASTs)

As indicated by the Site Representative and as observed by GHD during the Site inspection, the following ASTs were identified at the Site:

– Exterior 4,540 litre diesel tank located next to the generator outbuilding in the northeast portion of the Site. The AST is double-walled on concrete slab (no containment walls), but due to snow GHD could not make observations for signs of releases and/or surface staining. According to the Site Representative, this AST was installed in 2011 to replace a similar AST. The generator was to be initially fuelled with a flat tank located below the generator in the outbuilding, but was never reportedly used and the flat tank was left in place. GHD observed signs of drips/staining below the generator (on top of the flat tank) during the Site inspection.
– A 2,220 litre diesel tank located inside Hydro Vault and Generator building in the northeast portion of the Site. The AST is double-walled on concrete slab. No evidence of spills or releases was observed by GHD on or under the AST. According to the Site Representative, this AST was installed in approximately 2003 (manufactured date) to replace a smaller AST.
– A 935 litre diesel tank (ground floor) and 454 litre diesel day tank (penthouse next to generator) are located inside Tower 3. Both tanks are located in concrete secondary containment. No evidence of spills or releases was observed by GHD on or under the ASTs. According to the Site Representative, these ASTs were installed in 2011 to replace similar ASTs.

The Site Representative was not aware of any other current or historic ASTs, and were not aware of any spills/releases associated with current/historic ASTs or generators. No evidence of previous ASTs were observed by GHD during the Site inspection.

Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

6.2.7 Floor Drains, Pits, and Sumps

At the time of the Site inspection, GHD observed the following floor drains, pits, or sumps at the Site:

– Elevator sump/drain pits and ramp trench drains located in basement of Tower 2.
– Floor drains in Tower 3 loading area.
– Floor drains in some fire system rooms and next to hot water heaters.
– Floor drains in some bathrooms.

Based on GHD observations during the Site inspection, limited to no chemical storage is kept near the drains/sumps, and no evidence of staining was observed near the drains/sumps.

6.2.8 Wastewater/Sewers

According to the Site Representative and based on GHD's observations, wastewater generated at the Site discharges to the municipal sanitary sewer system.

6.2.9 Enhanced Investigation Property

In accordance with O. Reg. 153/04, Part VIII, Clause 32 (1) b, the Phase One Property is considered to be an Enhanced Investigation Property if it is currently used or has ever been used in whole or in part for industrial use, or commercial uses including a garage, a bulk liquid dispensing facility such as a gas station, or for the operation of dry cleaning equipment. Based on the current and historical use of the Site, the Site is not considered an Enhanced Property.

6.2.10 Asbestos-Containing Materials (ACM)

The presence of potential ACM at the Site was investigated during the Phase One ESA through discussions with the Site Representative and visual observations made by GHD. The Site Representative was not aware of any ACM surveys having been completed on any of the buildings to date since first constructed in 1987. Based on observation made by GHD, potential building materials that may contain asbestos include vinyl floor tiles, acoustic ceiling tiles, ceramic tile mastic, drywall compound, insulation material, roofing materials, and/or window/door caulking. Hidden building materials also have the potential to contain asbestos. Samples of potential ACM were not collected as part of this Phase One ESA, but are recommended prior to any demolition and/or renovation activities.

6.2.11 Polychlorinated Biphenyls (PCBs)

The presence of potential PCB-containing equipment at the Site was investigated during the Phase One ESA through discussions with the Site Representative and visual observations made by GHD. The Site Representative was not aware of any PCB-containing equipment or on-Site storage of PCBs or PCB wastes. GHD observed fluorescent lights throughout the Site buildings, but the light ballasts were not checked as part of the Phase One ESA to determine if they are PCB-containing. Transformers were also observed throughout the Site buildings, but were all dry-type transformers. No other evidence of on-Site PCBs or on-Site PCB waste storage was observed by GHD at the time of the Site inspection.

6.2.12 Solid Waste/Recyclable Materials

Based on discussions with the Site Representatives and GHD observations during the Site inspection, the following solid wastes or recyclables are currently generated at the Site:

– General Refuse and Recycled Materials (plastics, cardboard, etc.) | Bins are located in Corporate Building, Tower 2, and outside Tower 3 (refuse only); Tomlinson Environmental Services (Tomlinson) collects.
– Scrap metal and e-waste including but not limited to electronics, batteries, fluorescent bulbs | Bins located in Tower 2; EDI collects.
– Pallets | placed outside Tower 1; collected by employees or Tomlinson.

At the time of the Site inspection, no visual evidence of on-Site waste disposal was observed by GHD, and the Site Representative was not aware of any current or historic on-Site waste disposal activities.

6.2.13 Chemical and Raw Material use and Storage

Based on discussions with the Site Representative and GHD's visual observations during the Site inspection, chemicals used and stored at the Site are limited to the following:

– Ethlyene Glycol and/or Propylene Glycol (reservoir tanks, drums, and pails) used and stored near air handling equipment in penthouse and near inside server/testing rooms as part of exterior heat exchanger units.
– Isopropyl alcohol (small containers) for cleaning equipment in server/testing rooms.
– Paints (various sized containers, but less than 20 litres) in maintenance rooms or in areas being renovated.
– Various lubricants (small containers, less than 4 litres) located in maintenance areas and elevator machine rooms.
– General janitorial cleaners located in kitchens, bathrooms, and storage/maintenance areas.

No evidence of staining or spillage was observed by GHD at the location of the containers or at the Site.

6.2.14 Subject Waste/Hazardous Waste

Based on the findings of the ERIS database search outlined in Section 4.2.2, Alcatel Canada, and Nokia Canada (both listed under Generator No. ON0044812 between 2000 and 2021) were identified as operating under the following waste classifications at the Site:

– 112 – Acid Waste – Heavy Metals.
– 121 – Alkaline Wastes – Heavy Metals.
– 122 – Alkaline Wastes – Other Metals.
– 145 – Paint/Pigment/Coating Residues.
– 146 – Other Specified Inorganics.
– 148 – Inorganic Laboratory Chemicals.
– 212 – Aliphatic Solvents.
– 213 – Petroleum Distallates.
– 242 – Halogenated Pesticides.
– 252 – Waste Oils & Lubricants.
– 263 – Organic Laboratory Chemicals.
– 331 – Waste Compressed Gases.

According to the Site Representative and based on GHD's observation during the Site inspection, only limited subject waste is generated/stored in secure/contained portions of the Site buildings. Kitchen grease traps are cleaned quarterly and collected in an oil bin located in Corporate Building waste room. No other specific subject waste storage were observed during the Site inspection.

6.2.15 Chemical Spills/Releases

At the time of the Site inspection, GHD did not observe any visual evidence of chemical spills or releases at the Site. A review of the Ontario Spills database included in the ERIS report (refer to Section 4.2.2) did not identify any spills associated with the Site.

6.2.16 Lead-Based Paint

The amount of lead in interior and exterior paint has been regulated since 1976 through Health Canada's Hazardous Products Act. Based on the age of the buildings, it is unlikely that building materials were coated with lead-based paint; however, there is potential that older paint and/or building materials were used during construction. Samples of potential lead-based paint were not collected as part of this Phase One ESA, but are recommended prior to any demolition and/or renovation activities.

6.2.17 Chlorofluorocarbons

Based on observations made by GHD during the Site inspection, equipment potentially containing chlorofluorocarbons (CFCs) is limited to operation of air handling equipment for the building, and heat exchanger units for server/testing rooms.

6.2.18 Air Emissions

Based on GHD observations during Site inspection, air emission are limited to venting of diesel ASTs and natural gas appliances. The Site Representative was not aware of any other active air emission sources currently present at the Site.

6.2.19 Ionizing Radiation

According to the Site Representative and based on GHD observations during the Site inspection, no sources of ionizing radiation were observed by GHD at the Site.

6.3 Written Description of Investigation

The Phase One ESA included a records review, interviews with the Site Representative, a Site reconnaissance, and a review and evaluation of the information obtained during the Phase One ESA. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

The findings from the assessment carried out pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended, were previously discussed in Section 6.

7. Review and Evaluation of Information

7.1 Current and Past Uses (Site)

A summary of the current and past uses of the Site is provided below.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1930 to 1987	Unknown	Vacant (no buildings) or Agricultural	Vacant (no buildings) or Agricultural	Suspected to have been undeveloped and/or used for agricultural purposes (based on aerial photographs.
1987 to Present	Newbridge Networks Corporation (1987-2002) Alcatel Canada Inc. (2002-2013) Alcatel-Lucent Canada Inc. (2013-2016) Nokia Canada Inc. (2016-Present; Nokia acquires Alcatel-Lucent)	Office and Computer Labs	Commercial and/or Industrial	Based on a review of the 1991, 1999, 2009, and 2019 aerial photographs, the Site was developed with office buildings and a large parking lot.

7.2 Potentially Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153/04, under the Environmental Protection Act. The following PCAs have been identified to be on, in, or under the Phase One Property, or located within the Phase One Study Area *and* have the potential to contribute to an APEC.

Location and Description	Potentially Contaminating Activity (PCA)
Site – Exterior diesel AST and generator	#28 - Gasoline and Associated Products Storage in Fixed Tanks – APEC #5
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	#19 – Electronic and Computer Equipment Manufacturing – APEC #1
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	#37 – Operation of Dry Cleaning Equipment – APEC #2
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	#19 – Electronic and Computer Equipment Manufacturing – APEC #4
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners – APEC #3

The location of the above-noted PCAs on the Site and adjacent to the Site are shown on **Figure 3**. APEC #'s provided in above table are also shown on **Figure 3** and referenced in Section 7.3.

In addition to the above noted PCAs associated with Site and adjacent properties, the following PCAs were also identified within the Phase One Study Area, but based on review of available documents do not have the potential to contribute to an APEC, typically due to distance from the Site and/or groundwater flow direction.

Location and Description	Potentially Contaminating Activity (PCA)
Site – Newbridge Networks (former owners/operators)	#19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 125 m from Site)	#19 – Electronic and Computer Equipment Manufacturing

Location and Description	Potentially Contaminating Activity (PCA)
Northeast of Site – Various equipment-electronic manufacturers (API Filtran, API Technologies, ARTAFlex, Volex, SCI, Emcon Emanation) at 360 Terry Fox Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	#19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks
North of the Site – Shell Gas Station at 720 March Road (approx. 225 m from Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks

The location of the above-noted PCAs within the Phase One Study Area are shown on **Figure 3**.

7.3 Areas of Potential Environmental Concern

The following areas of actual or potential environmental concern have been identified by the Phase One ESA site reconnaissance and records review and are summarized in the table below. This table is used to list and describe each potentially contaminating activity at the Property and each potentially contaminating activity in the Phase One study area that may be contributing to an APEC at the Property.

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Adjacent Property to the South – Electronics manufacturing at 500 March Road	Southern Boundary of the Site	#19 – Electronic and Computer Equipment Manufacturing	Off-Site	Metal/Inorganics, VOCs, PAHs, and PHCs	Groundwater
APEC #2 – Property to the west (beyond March Road) – Dry Cleaners at 591 March Road	Northwest Boundary of the Site	#37 – Operation of Dry Cleaning Equipment	Off-Site	VOCs	Groundwater
APEC #3 – Property to the Northwest and West – Historic March Landfill with associated groundwater contamination plume	Northwest Boundary of the Site	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners	Off-Site	VOCs	Groundwater
APEC #4 – Property to the west (beyond March Road) – Electronics manufacturing at 603 March Road	Northwest Boundary of the Site	#19 – Electronic and Computer Equipment Manufacturing	Off-Site	Metal/Inorganics, VOCs, PAHs, and PHCs	Groundwater
APEC #5 – Site – Exterior diesel AST and generator	Site – Fenced-in area surrounding generator and AST	#28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs and BTEX	Soil and Groundwater

Notes:

1 Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through:
   (a) Identification of past or present uses on, in or under the Phase One property.
   (b) Identification of potentially contaminating activity.

2 Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area.

3 When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for Analytical Methods in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011.
   – PAHs: Polycyclic Aromatic Hydrocarbons
   – PHCs: Petroleum Hydrocarbon (Fractions F1-F4)
   – VOCs: Volatile Organic Compounds
   – BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Where GHD identified significant uncertainty, or a lack of information regarding the potential for a PCA to contribute to an APEC at the Site, GHD conservatively assumed that an APEC may be present, and included the APEC in this report.

7.4 Phase One Conceptual Site Model

The Phase One Property is located at 600 March Road in Kanata (Ottawa), Ontario, east of March Road, south of Terry Fox Drive, and west of Legget Drive. A Site Location Map and a Site Plan are provided on **Figure 1** and

Figure 2, respectively. The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa.

The Phase One Property is approximately 10.39 ha (25.67 acres) in size, and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas.

The Phase One Property is currently owned by Nokia Canada Inc. and is used for office and research/development activities. Prior to the Nokia owning/operating the Phase One Property, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent. Prior to the current development, the Phase One Property was vacant and/or used for agricultural purposes.

The general topography at the Site and in the Phase One Study Area is relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase One Study Area. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated March 11, 2022; currently Draft), a Site investigation was carried out between January 28 and February 6, 2022 to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. Ten boreholes were advanced at the Site to auger refusal and/or into bedrock, with four monitoring wells installed/sealed in bedrock and one monitoring well installed in the overburden soil. A summary of applicable subsurface conditions is noted below:

– Topsoil (organic material with rootlets), and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.9 mBGS. Silty clay to clay deposit was encountered below topsoil or subbase material.
– Auger refusal (presumed bedrock) was encountered at depths ranging from 0.4 to 3.6 mBGS in all boreholes.
– Groundwater was not encountered in the overburden stratigraphy.
– Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 mAMSL on February 9, 2022. The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook (actual direction could not be confirmed based on well locations and dry well conditions). It should be noted that the groundwater table elevation is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.

Based on the information reviewed and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered an area of natural significance.

The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The Site is serviced with natural gas provided by Enbridge for various building operations/appliances. The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

The Phase One ESA Conceptual Site Model, including the location of PCAs and APECs, is depicted on **Figure 3**. Based on the results of the Phase One ESA, the contaminants of concern were identified as metals/inorganics, PAHs, PHCs, VOCs, and/or BTEX.

8. Conclusions

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site.

1. **Adjacent Manufacturing Operations |** Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at 500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.
2. **Surrounding Dry Cleaning Operations |** The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2**.
3. **Surrounding Historic Landfill |** The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3**.
4. **Surrounding Manufacturing Operations |** Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**
5. **Site Diesel Generator/Tank Operations |** Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

8.1 Requirement for Phase Two ESA Before RSC Can Be Submitted

Based on the information obtained in completing this Phase One ESA, it is our opinion that a Phase Two ESA is required to characterize soil and groundwater quality at the Phase One Property before a RSC can be filed with the MECP. The Phase Two ESA should evaluate the presence or absence of soil or groundwater impact to the Site from all identified APECs.

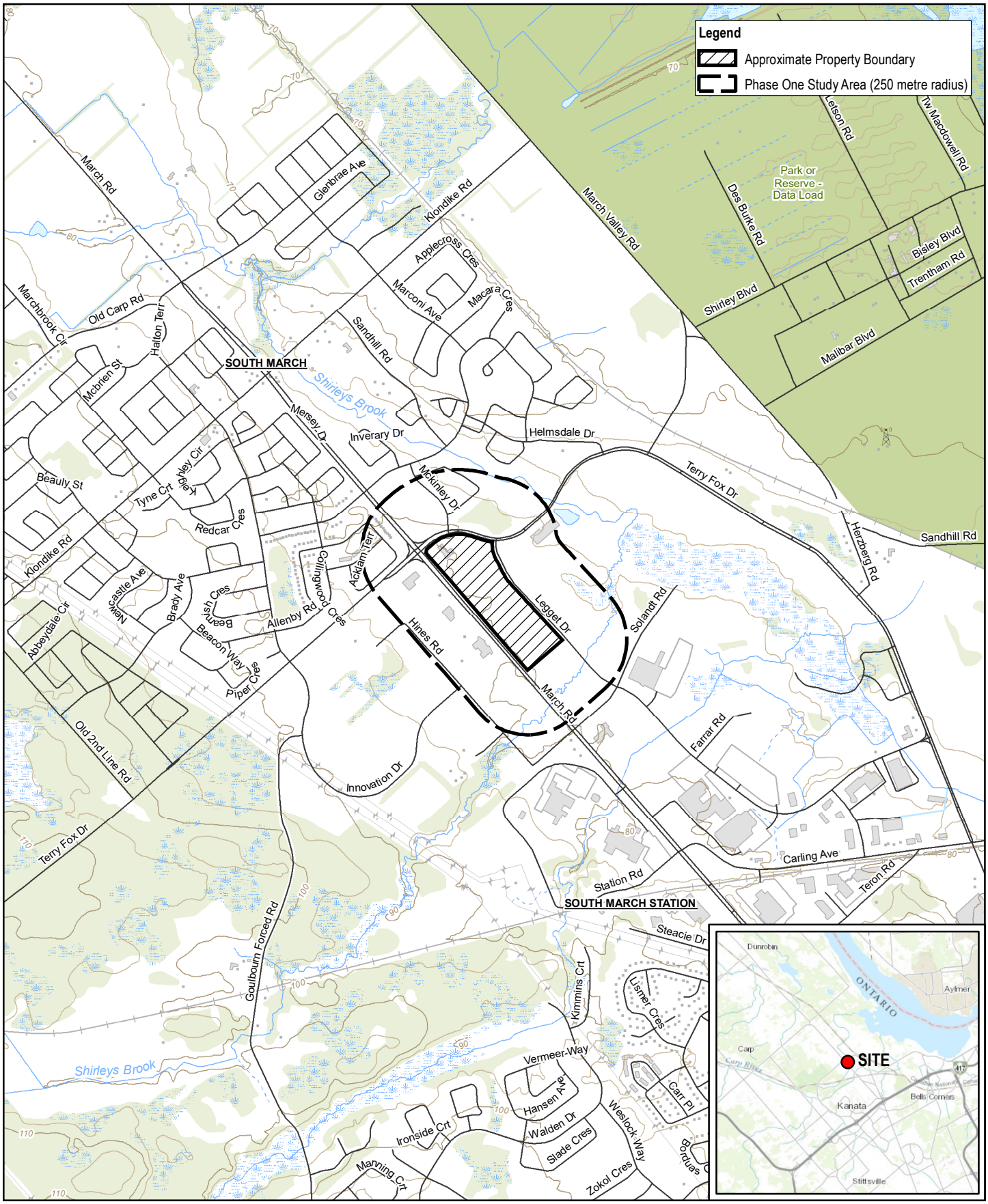
8.2 Signatures

Joseph Drader, Qualified Persons for Environmental Site Assessment under O. Reg. 153/04, confirms the carrying out of this Phase One ESA and the findings and conclusions of this report.

9. References

Ministry of Environment. Environmental Protection Act, Ontario Regulation 153/04, Records of Site Condition, Part XV.I of the Act.

Intera Technologies Ltd. Mapping and Assessment of Former Industrial Sites, City of Ottawa, July 1988.



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

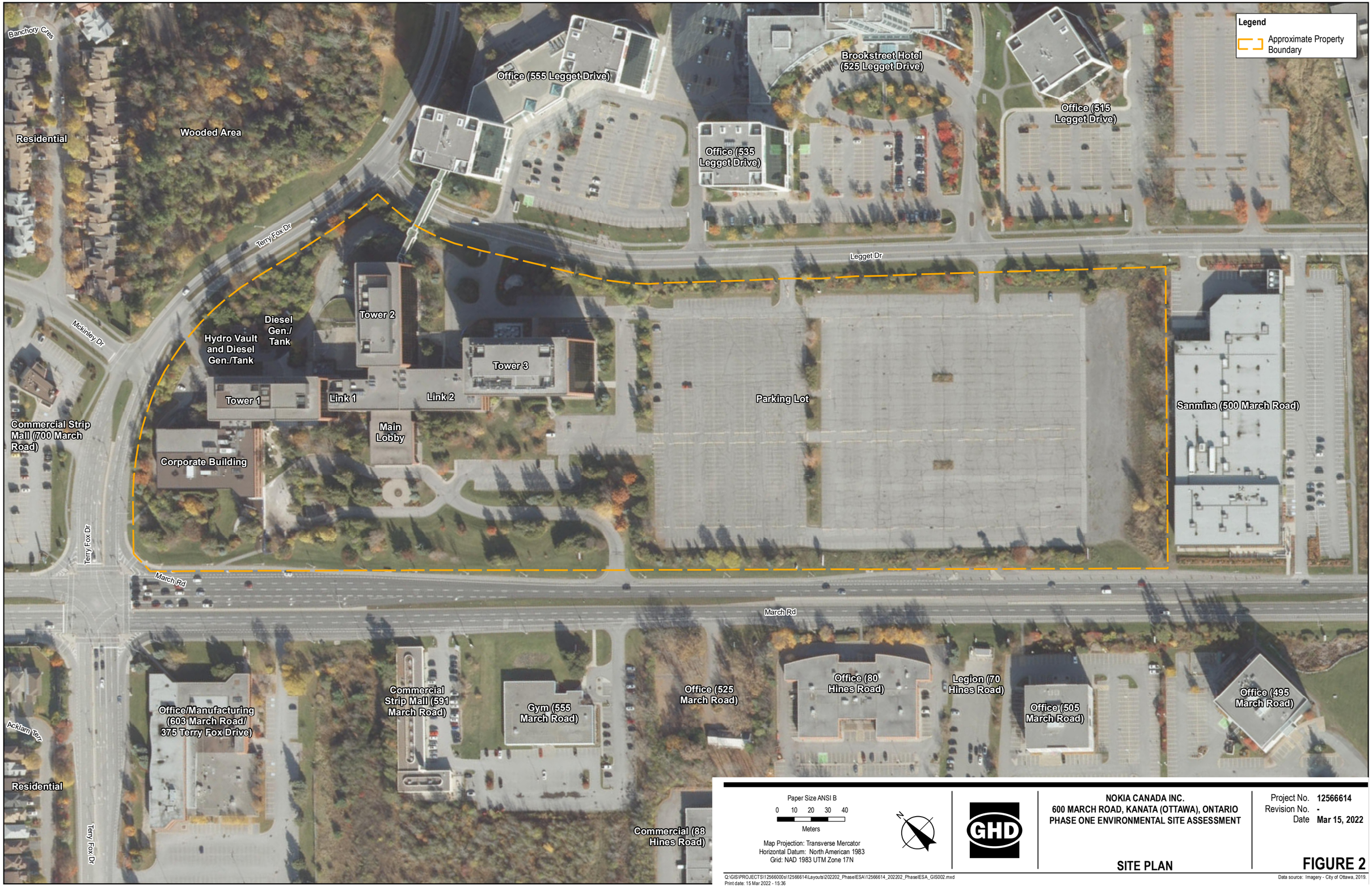
Project No. **12566614**
Revision No. **-**
Date **Mar 15, 2022**

SITE LOCATION MAP

FIGURE 1

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Print date: 15 Mar 2022 - 15:22

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2022.



Paper Size ANSI B

0 10 20 30 40

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

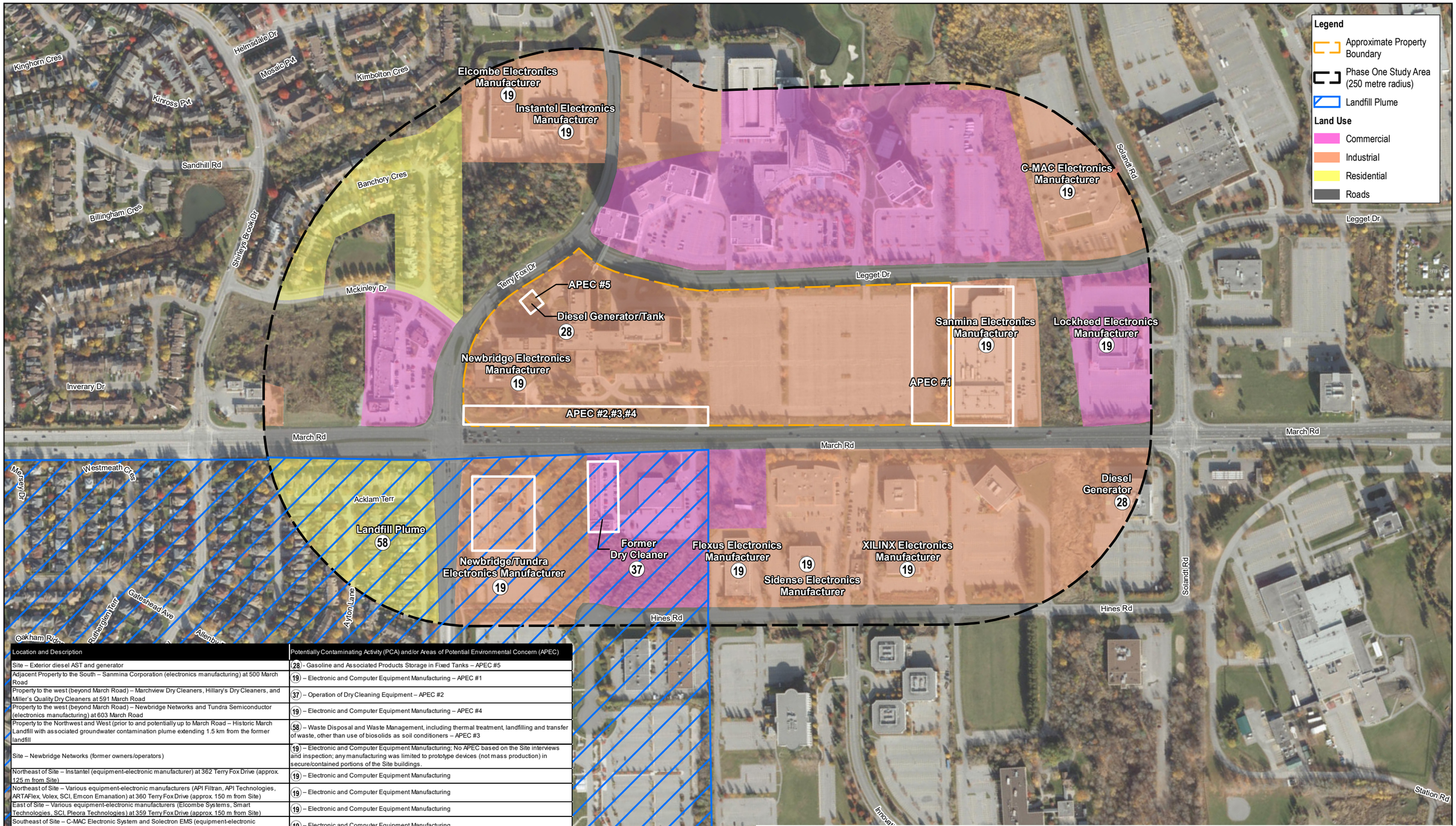
SITE PLAN

Project No. **12566614**
Revision No. **-**
Date **Mar 15, 2022**

FIGURE 2

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Print date: 15 Mar 2022 - 15:36

Data source: Imagery - City of Ottawa, 2019.



Location and Description	Potentially Contaminating Activity (PCA) and/or Areas of Potential Environmental Concern (APEC)
Site – Exterior diesel AST and generator	28 - Gasoline and Associated Products Storage in Fixed Tanks – APEC #5
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #1
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	37 – Operation of Dry Cleaning Equipment – APEC #2
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #4
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners – APEC #3
Site – Newbridge Networks (former owners/operators)	19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings.
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 125 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Northeast of Site – Various equipment-electronic manufacturers (API Filtran, API Technologies, ARTAFlex, Volex, SCI, Emcon Emanation) at 360 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks
North of the Site – Shell Gas Station at 720 March Road (approx. 225 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks

Paper Size ANSI B

0 30 60 90 120

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

CONCEPTUAL SITE MODEL

Project No. **12566614**
Revision No. **-**
Date **Mar 17, 2022**

FIGURE 3

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Print date: 17 Mar 2022 - 09:41

Data source: Imagery - City of Ottawa, 2019.

Appendices

Appendix A

Curricula Vitae

Joseph Drader P. ENG., P.E.

Project Manager/Environmental Engineer



Location

Ottawa, Ontario, Canada

Experience

20+ years

Qualifications/Accreditations

– Bachelor of Science in Chemical Engineering, 2000

Key technical skills

– Contaminant Assessment and Remediation
– Decommissioning Closure & Rehabilitation
– Designated Substance Surveys
– Emergency Response Assessments

Memberships

– Professional Engineers of Ontario
– Ottawa Area Chapter of Association of Consulting Engineering Companies

Relevant experience summary

Joseph is a senior engineer with over 20 years of experience in environmental engineering. Joseph has experience in Phase I and II Environmental Site Assessments (governed by Canadian and United States regulations); emergency response assessments, remediation, and investigations; construction supervision/inspection and contract administration for UST removal projects, remediation projects, and landfill projects; designate substance surveys; coordination of various monitoring programs (groundwater, surface water, air); and other environmental compliance assessments (noise, air, sewer). Joseph has also been the Quality System representative for the Ottawa office for 6 years (2009 2015) and is a former member of the Office Joint Health and Safety Committee.

Project experience – Environmental Site Assessments

Phase I ESAs

Project Manager/Engineer |
Various | Ontario, Quebec, Manitoba, Saskatchewan, Northwest Territories, Canada and New York and Michigan, USA | 2005 - Present

Project Manager/Engineer for Phase I ESA inspections, research, and reporting in support of acquisition, divesture, due diligence, and regulatory requirements for over 90 industrial, commercial, municipal, and residential properties in Canada and USA. Other environmental compliance activities completed in conjunction with Phase I ESA include:

Phase II ESAs

Project Manager/Engineer |
Various | Ontario, Canada | 2005 - Present

Project Manager/Engineer for Phase II ESA programs and reporting in support of acquisition, divesture, due diligence, construction/redevelopment, and regulatory requirements for industrial, commercial, and residential properties including, but not limited to:

– Commercial/Vacant property in Ottawa, Ontario
– Transport facility and vacant property in Sudbury, Ontario
– Soil/Groundwater investigation of former UST area at quarry property in Renfrew, Ontario
– Groundwater investigation at former gas station property in Mississauga, Ontario
– Former gas station property in Kemptville, Ontario
– Former residential/parking lot property in Ottawa, Ontario
– Groundwater investigation at residential apartment building with former adjacent dry cleaning operations in Ottawa, Ontario
– Residential apartment building with historic industrial activities in Ottawa, Ontario
– Former industrial properties in Belleville, Ontario
– Office building property (former UST) in Ottawa, Ontario

Phase II ESA activities included development of sampling plans and health & safety plans, along with coordination and implementation of utility locates, test pit and drilling activities, monitoring well installation, soil &

groundwater sampling and monitoring activities, analytical results review & interpretation, and client & regulatory reporting.

Project experience – Environmental Investigation, Remediation, and Risk Management

Leaking UST

Senior Engineer/Advisor |
CAI Inc. | Prescott, Ontario, Canada | 2019

Senior Engineer/Advisor for an environmental assessment and remediation of a potentially leaking underground storage tank containing heptane at a coatings, adhesives, and inks manufacturing facility. Responsibilities include:

- Coordination of groundwater and sewer sampling program along with analytical results review and reporting
- Budgetary estimates for remediation of heptane impact, as well as new tank farm design
- General consulting services with client and regulator

Hawkesbury Lagoon Landfill Site

Project Manager/Engineer |
MNRF | Hawkesbury, Ontario, Canada |
2014 - 2020

Project Engineer (later Manager) for the groundwater, leachate, and surface water monitoring program at a former pulp and paper site that is under remediation (lagoon sludge material transferred to landfill constructed on-Site). Responsibilities include coordination of monthly/quarterly groundwater, leachate, and surface water sampling events; advisor for drilling program for new monitoring wells installed within and outside landfill; assessment of hydrogeologic conditions; assessment of sample analytical data to regulatory trigger limits; implementation of applicable corrective action activities; and annual reporting to regulatory requirements. Other responsibilities included ECA amendment application, meeting with MECP, and leachate removal activities.

Waste Oil Tank and Vault Decommissioning

Project Manager/Engineer |
City of Ottawa | Ottawa, Ontario, Canada |
2014 - 2015

Project Manager/Engineer for the environmental assessment and decommissioning of an underground vault and former waste oil tank at the Lemieux Island Water Purification Plant. Responsibilities include:

- Development of a subsurface investigation program (soil and groundwater) in the vicinity of the vault
- Development of detailed design and technical specifications for the tank removal, vault decommissioning, and impacted soil removal
- Tender support, contract administration, and liaison between contractor and City
- Soil and groundwater sample data assessment and closure reporting

Former Amoco Fabrics and Fibers Facility

Project Engineer |
HCISPA | Hawkesbury, Ontario, Canada |
2009 - 2011; 2017 - Ongoing

Project Engineer and Contract Administrator for source removal/remediation activities of former yarn waste area and former sludge lagoon area. Responsibilities include:

- Development of detailed design and technical specification for excavation of yarn waste disposal area and excavation/in-situ chemical oxidation (ISCO) treatment of former sludge lagoon area
- Tender support, contract administration, and liaison between contractor and client
- Soil and groundwater data assessment and reporting of remediation activities

As of 2017, Project Engineer for development of technical specifications for demolition of on-Site treatment system and structures, as well as completion of a due diligence risk assessment (DDRA) for property redevelopment and sale. As of 2018, Project Manager for semi-annual groundwater monitoring program with annual reporting to regulatory agency, along with installation of new monitoring wells. Additional responsibilities included environmental advisor for property redevelopment, ECA application documents.

Implementation of Risk Management Plan

Project Manager/Engineer |
Sakto Corporation | Ottawa, Ontario, Canada |
2008 - Ongoing

Joseph is project manager and engineer for implementation of Risk Management Plan (RMP) at a residential/office building complex, where historic dry cleaning operations impacted groundwater at on and off-site properties. Responsibilities include:

- Assessment of quarterly and semi-annual groundwater and ambient air sampling data
- Annual reporting to City of Ottawa and MOECC
- Coordination and reporting of monthly effluent sampling from a groundwater pre-treatment system (air stripper) to City of Ottawa sanitary sewer (dewatering of 4-storey underground garage)

Based on consistent and/or decreasing groundwater VOC concentrations, the groundwater and air sampling have been reduced to annual events and annual summary reporting.

Former Industrial Facility

Project Manager/Engineer |
Metso Minerals Canada | Belleville, Ontario, Canada | 2010 - 2019

Project Engineer (later Manager) for due diligence activities completed at former mining equipment manufacturing facility with 11 structures constructed between 1915 and 1990. Scope and responsibilities included:

- Project Engineer for Phase I and II ESAs, along with budgetary estimates for risk assessments, demolition, remediation efforts, etc. as part of client divesture of the property
- Project Manager and Engineer for Designated Substance and Hazardous Material survey and reporting
- Project Manager and Engineer for development of design drawings and specifications for the building abatement and demolition activities
- Project Manager for tender support, construction inspection, and contract administration services associated with abatement/demolition

Project experience – Emergency Spill Response

Industrial Facility

Project Manager/Engineer |
DEW Engineering & Development | Ottawa, Ontario, Canada | 2019

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a zinc phosphate solution release affecting Site and adjacent property. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Residential Fuel Oil Spill

Project Manager/Engineer |
Private Resident | Ottawa, Ontario, Canada | 2019

Project Manager/Engineer for completion of initial assessment and subsequent remediation coordination for a fuel oil spill at a private residence. Responsibilities included:

- Coordination of initial assessment/reporting of fuel oil impact and subsequent investigation/sampling to determine extent of impact
- Coordination for soil remediation (excavation) at Site
- Spill closure reporting

Highway 401 Truck Accident

Project Manager/Engineer |
TransForce | Joyceville, Ontario, Canada | 2018

Project Manager and Engineer for completion of spill assessment and sampling/reporting associated with a diesel fuel spill off Highway 401. Responsibilities included coordination of spill assessment and confirmatory soil sampling, followed by review of analytical results and completion of spill closure reporting.

Incident Assessment and Remediation Coordination - Highway 417 Truck Accident

Project Engineer |
TransForce | Ottawa, Ontario, Canada | 2015

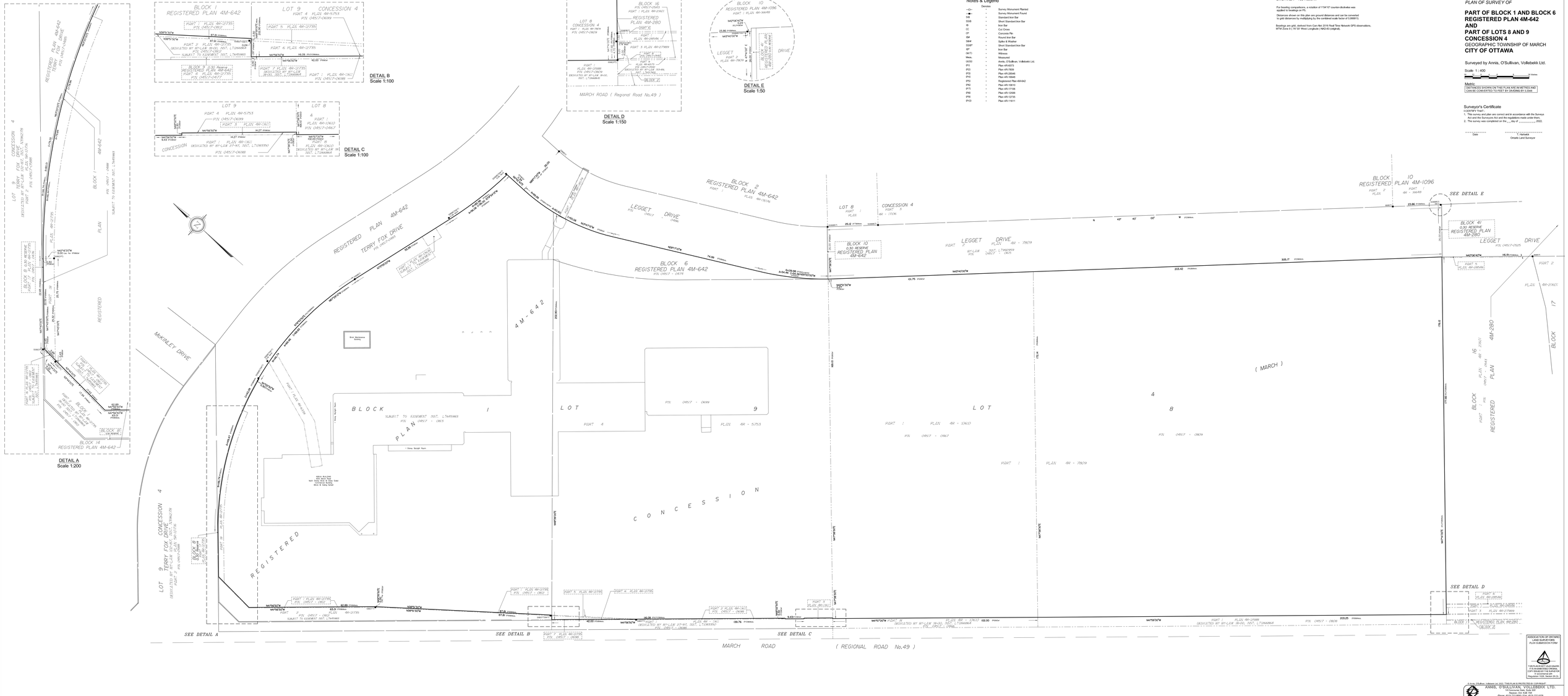
Project Engineer for completion of initial assessment and subsequent remediation coordination for a truck accident that spilled diesel fuel on the highway median. Initial assessment responsibilities included waste contractor coordination (drum removal), collection of incident details, soil sampling of impacted area (delineation and waste disposal purposes), as well as reporting incident to the MOECC Spills Action Centre. Remediation coordination responsibilities included contractor procurement and scheduling (traffic control, remediation, landfill, and laboratory). Work completed at night based on incident location and MTO encroachment permit.

Career history

2001 - present	GHD, Project Manager/Engineer (Ottawa, Ontario; and Plymouth, Michigan)

Appendix B

Legal Survey Drawing


DETAIL A
Scale 1:200
DETAIL B
Scale 1:100
DETAIL C
Scale 1:100
DETAIL D
Scale 1:150
DETAIL E
Scale 1:50
SEE DETAIL A
SEE DETAIL B
SEE DETAIL C
SEE DETAIL D
SEE DETAIL E
MARCH ROAD (Regional Road No.49)
(REGIONAL ROAD No.49)
(MARCH)
REGISTERED PLAN 4M-642
TERRY FOX DRIVE
McKINLEY DRIVE
CONCESSION 4
LOT 9
LOT 8
BLOCK 1
BLOCK 2
BLOCK 6
BLOCK 10
BLOCK 14
BLOCK 16
BLOCK 41
LEGGET DRIVE
4M-642
4M-280
4M-1096
4M-1316
4M-1545
4M-1546
4M-1547
4M-1548
4M-1549
4M-1550
4M-1551
4M-1552
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4M-1569
4M-1570
4M-1571
4M-1572
4M-1573
4M-1574
4M-1575
4M-1576
4M-1577
4M-1578
4M-1579
4M-1580
4M-1581
4M-1582
4M-1583
4M-1584

Appendix C

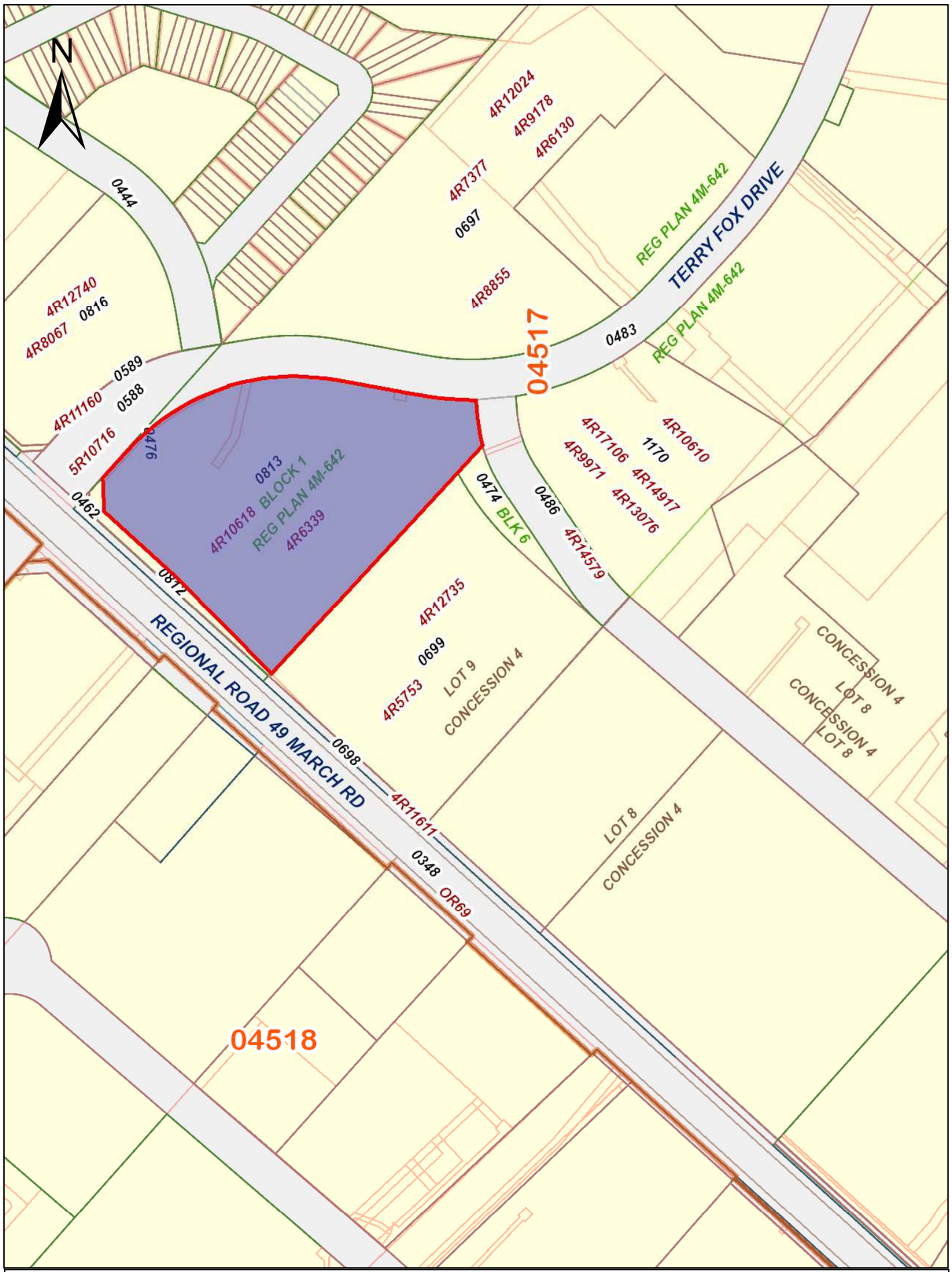
Chain of Title Documentation

Title Summary – 600 March Road, Ottawa

C/M 422231.000229

	PIN	Owner	Description	Transfer No.	Change of Owner Name
1.	**04517-0813 (LT)** **600 March Road**	**Alcatel-Lucent Canada Inc.**	BLOCK 1, PLAN 4M-642 SAVE AND EXCEPT PARTS 1, 2 AND 16 ON PLAN 4R-12735, KANATA.	**LT591903; Reg. 1988/11/29** to Newbridge Networks Corporation Societe Par Actions de Regime Federal de Reseaux Newbridge	LT930493 Reg. 1995/04/05 to Newbridge Networks Corporation; OC129464 Reg. 2002/10/10 to Alcatel Canada Inc.; OC1466862 Reg. 2013/04/11 to **Alcatel-Lucent Canada Inc.**
2.	**04517-0699 (LT)** **600 March Road**	**Alcatel Canada Inc.**	SOUTHEAST HALF OF LOT 9, CONCESSION 4, DESIGNATED AS PART 4 ON 4R-5753, SAVE AND EXCEPT PARTS 1, 2 AND 3 ON PLAN 4R-11611 ; KANATA	**LT611806; Reg. 1989/04/28** to Newbridge Research Corporation	LT998009 Reg. 1996/09/05 to Newbridge Networks Corporation; OC177396 Reg. 2003/13/12 to **Alcatel Canada Inc.**
3.	**04517-0474 (LT)** **600 March Road**	**Newbridge Research Corporation**	PCL 6-1, SEC 4M-642 ; BLK 6, PL 4M-642 ; KANATA	**LT611806; Reg. 1989/04/28** to Newbridge Research Corporation	None
4.	**04517-0467 (LT)** **Parking Lot**	**Newbridge Networks Corporation**	PCL 8-3, SEC MARCH-4 ; PT LT 8, CON 4 , PART 1 , 4R10610 ; KANATA	**LT914779; Reg. 1994/11/03** to Newbridge Networks Corporation	None
5.	**04517-0809 (LT)** **Parking Lot**	**Newbridge Networks Corporation**	PART OF LOT 8 CONCESSION 4, BEING PART 1 ON PLAN 4R7809 EXCEPT PARTS 1 AND 8 ON PLAN	**LT975384; Reg. 1996/05/01**	None

	PIN	Owner	Description	Transfer No.	Change of Owner Name
			4R10610 AND EXCEPT PART 1 ON PLAN 4R12588.	to Newbridge Networks Corporation	



ServiceOntario

PRINTED ON 27 JAN, 2022 AT 09:10:44
FOR AWEPPL01

SCALE

0 25 50 75 100 125 Meters

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	*0449*
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

THIS IS NOT A PLAN OF SURVEY

Ontario

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PRINTED ON 27 JAN, 2022 AT 11:19:47
FOR AWEPPL01

SCALE

0 50 100 150 200 250 Meters

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

THIS IS NOT A PLAN OF SURVEY

Ontario

© Queen's Printer for Ontario, 2022

Re: 600 March Road, Kanata

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0813 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 09:06:15

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: BLOCK 1, PLAN 4M-642 SAVE AND EXCEPT PARTS 1, 2 AND 16 ON PLAN 4R-12735, KANATA. SUBJECT TO AN EASEMENT IN FAVOUR OF KANATA HYDRO-ELECTRIC COMMISSION AS IN LT645983. SUBJECT TO AN EASEMENT IN FAVOUR OF KANATA HYDRO-ELECTRIC COMMISSION OVER PART 1 ON PLAN 4R-10618 AS IN LT936988.

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04517-0488

PIN CREATION DATE:
1998/07/22

OWNERS' NAMES
ALCATEL-LUCENT CANADA INC.

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1998/07/22						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1998/07/22 ***						
LT546852	1988/02/05	NOTICE AGREEMENT			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT546853	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT546854	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT547259	1988/02/11	NOTICE AGREEMENT			THE KANATA HYDRO-ELECTRIC COMMISSION	C
LT547261	1988/02/11	NOTICE AGREEMENT			THE KANATA HYDRO-ELECTRIC COMMISSION	C
LT559947	1988/05/25	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
4R6339	1988/07/06	PLAN REFERENCE				C
LT591903	1988/11/29	TRANSFER	$4,018,954		NEWBRIDGE NETWORKS CORPORATION SOCIETE PAR ACTIONS DE REGIME FEDERAL DE RESEAUX NEWBRIDGE	C
REMARKS: AMENDED UNDER LT851607						
LT637583	1989/09/27	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT645983	1989/11/17	TRANSFER EASEMENT			KANATA HYDRO-ELECTRIC COMMISSION	C
LT852259	1993/09/24	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT896041	1994/07/18	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
4R10618	1994/09/12	PLAN REFERENCE				C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT914836	1994/11/04	NOTICE			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT930493	1995/04/05	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION		C
LT936534	1995/06/06	NOTICE		NEWBRIDGE NETWORKS CORPORATION	KANATA HYDRO-ELECTRIC COMMISSION	C
LT936988	1995/06/12	TRANSFER EASEMENT		NEWBRIDGE NETWORKS CORPORATION	KANATA HYDRO-ELECTRIC COMMISSION	C
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
OC129464	2002/10/10	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION	ALCATEL CANADA INC.	C
OC176830	2003/03/10	NOTICE OF LEASE		ALCATEL CANADA INC.	ROGERS WIRELESS INC.	C
OC1466862	2013/04/11	APL CH NAME OWNER		ALCATEL CANADA INC.	ALCATEL-LUCENT CANADA INC.	C
OC1466867	2013/04/11	APL (GENERAL)		ROGERS COMMUNICATIONS INC.	ROGERS COMMUNICATIONS INC.	C
REMARKS: AMENDING OC176830						

Re: 600 March Road, Kanata

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0699 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 09:13:25

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: SOUTHEAST HALF OF LOT 9, CONCESSION 4, DESIGNATED AS PART 4 ON 4R-5753, SAVE AND EXCEPT PARTS 1, 2 AND 3 ON PLAN 4R-11611 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04517-0480

PIN CREATION DATE:
1997/02/10

OWNERS' NAMES
ALCATEL CANADA INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1997/02/10						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1997/02/10 ***						
4R5753	1987/04/16	PLAN REFERENCE				C
LT611806	1989/04/28	TRANSFER	$798,125		NEWBRIDGE RESEARCH CORPORATION	C
LT896041	1994/07/18	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT914836	1994/11/04	NOTICE			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT998009	1996/09/05	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION		C
4R12735	1997/02/18	PLAN REFERENCE				C
LT1110642	1998/03/18	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** KILMER ENVIRONMENTAL INC.		
LT1110941	1998/03/19	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: DELETING LT1110642						
LT1114307	1998/04/06	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** CRANE SUPPLY, A DIVISION OF CRANE CANADA INC.		
LT1115105	1998/04/14	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: LT1114307						
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1302565	2000/07/21	NOTICE OF LEASE		*** COMPLETELY DELETED *** NEWBRIDGE NETWORKS CORPORATION	 CLEARNET PCS INC.	
OC141417	2002/11/15	NOTICE OF LEASE		ALCATEL CANADA INC.	BELL MOBILITY INC.	C
OC177396	2003/03/12	APL CH NAME OWNER		NEWBRIDGE NETWORKS CORPORATION	ALCATEL CANADA INC.	C
OC393483	2004/10/18	NOTICE OF LEASE		ALCATEL CANADA INC.	TM MOBILE INC.	C
OC393940	2004/10/19	APL CH NAME INST		*** COMPLETELY DELETED *** CLEARNET PCS INC.	 TELUS COMMUNICATIONS INC.	
REMARKS: LT1302565						
OC393953	2004/10/19	APL (GENERAL)		*** COMPLETELY DELETED *** ALCATEL CANADA INC.		
REMARKS: LT1302565						

Re: 600 March Road

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0474 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 09:30:06

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 6-1, SEC 4M-642 ; BLK 6, PL 4M-642 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK OM516

PIN CREATION DATE:
1995/03/20

OWNERS' NAMES
NEWBRIDGE RESEARCH CORPORATION

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1995/03/20						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1995/03/17 ***						
LT546852	1988/02/05	NOTICE AGREEMENT			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT546853	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT546854	1988/02/05	NOTICE AGREEMENT			THE CORPORATION OF THE CITY OF KANATA	C
LT547261	1988/02/11	NOTICE AGREEMENT			THE KANATA HYDRO-ELECTRIC COMMISSION	C
LT611806	1989/04/28	TRANSFER	$798,125		NEWBRIDGE RESEARCH CORPORATION	C
LT896041	1994/07/18	NOTICE			THE CORPORATION OF THE CITY OF KANATA	C
LT914836	1994/11/04	NOTICE			THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
LT1110642	1998/03/18	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** KILMER ENVIRONMENTAL INC.		
LT1110941	1998/03/19	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
	REMARKS: DELETING LT1110642					
LT1114307	1998/04/06	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** CRANE SUPPLY, A DIVISION OF CRANE CANADA INC.		
LT1115105	1998/04/14	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
	REMARKS: LT1114307					
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Re: Parking Lot

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0467 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 10:05:55

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 8-3, SEC MARCH-4 ; PT LT 8, CON 4 , PART 1 , 4R10610 ; KANATA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK FA20

PIN CREATION DATE:
1995/03/20

OWNERS' NAMES
NEWBRIDGE NETWORKS CORPORATION

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1995/03/20						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1995/03/17 ***						
4R10610	1994/09/12	PLAN REFERENCE				C
LT914779	1994/11/03	TRANSFER	$516,012		NEWBRIDGE NETWORKS CORPORATION	C
LT1110642	1998/03/18	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** KILMER ENVIRONMENTAL INC.		
LT1110941	1998/03/19	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: DELETING LT1110642						
LT1114307	1998/04/06	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** CRANE SUPPLY, A DIVISION OF CRANE CANADA INC.		
LT1115105	1998/04/14	APL (GENERAL)		*** COMPLETELY DELETED *** ZEIDLER & WALKER LIMITED		
REMARKS: LT1114307						
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Re: Parking Lot

Ontario ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND REGISTRY OFFICE #4

04517-0809 (LT)

PREPARED FOR aweppl01

ON 2022/01/27 AT 11:21:52

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART OF LOT 8 CONCESSION 4, BEING PART 1 ON PLAN 4R7809 EXCEPT PARTS 1 AND 8 ON PLAN 4R10610 AND EXCEPT PART 1 ON PLAN 4R12588.

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04517-0616

PIN CREATION DATE:
1998/07/22

OWNERS' NAMES
NEWBRIDGE NETWORKS CORPORATION

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1995/03/20 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1998/07/22						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1998/07/14 ***						
4R7809	1991/11/15	PLAN REFERENCE				C
LT975384	1996/05/01	TRANSFER	$1,100,000	MINTO DEVELOPMENTS INC.	NEWBRIDGE NETWORKS CORPORATION	C
LT1147788	1998/09/02	NOTICE		NEWBRIDGE NETWORKS CORPORATION	THE CORPORATION OF THE CITY OF KANATA	C
LT1294889	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294890	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C
LT1294891	2000/06/28	APL (GENERAL)		KANATA RESEARCH PARK CORPORATION		C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Appendix D

Municipal Directory Search

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property: *600 March Road, Ottawa, Ontario*
Report Type: *City Directory*
Order No: *22010600440*
Information Source: *Vernon's Ottawa, Ontario City Directory*
Date Completed: *21/01/2022*

Note addendum regarding documentation results.

City Directory Information Source

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

Vernon's Ottawa, Ontario City Directory

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 2011	
Site Listing:	-Alcatel-Lucent
Adjacent Properties:	
March Road (495-720) (No radius information. Available addresses listed individually.)	555 – Goodlife Fitness 591 – Royal Lepage -Wine Craft -Vet Hospital -Bombay Masala -Co-Operators 603 – Belair Networks
Aclam Terracen (30-120) (Missing All)	-Information Inaccessible
Ayton Lane (20-55) (Missing All)	-Information Inaccessible
Banchory Crescent (All) (Missing All)	-Information Inaccessible
Hines Road (40-95) (No radius information. Available addresses listed individually.)	70 – Canadian Legion 84 – Certicom Corp

	-Irdeto Canada -Sidense Corp -Ashton Electronic Systems -Arrow Electronics -Psion Teklogix 88 – Flexus Electronics 95 – Wescar Corp
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 2005/06	
Site Listing:	-Address Not Listed
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Royal Lepage

	603 – Address Not Listed
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – Canadian Legion 84 – Certicom Corp. -Metconnex Inc. -Colonnade Developments -Taral Networks -Telewatch Monitoring -Cloakware Corp. 88 – Wescar Corp. -Flexus Electronics -Telemus Inc. 95 – Wescar Corp -Value Added Solutions
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible

Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 2001/02	
Site Listing:	-Alcatel Networks
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Royal Lepage -Wine Craft -Island Tanning -Vet. Hospital -Ashoka Indian Cuisine 603 – Tundra Semi Conductor
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – PCL Constructors 84 – Sitecast Construction

	88 – Arrow Electronics -Flexus Electronics -Telemus Inc. 95 – Wescar Corp -Value Added Solutions
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

PROJECT NUMBER: 22010600440	
Site Address:	600 March Road, Ottawa, Ontario
Year: 1996/97	
Site Listing:	-Newbridge Networks
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Royal Lepage -Wine Craft -Appliance Experts

	-Vet. Hospital -Market Place 603 – Newbridge Networks
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – Address Not Listed 84 – Address Not Listed 88 – Address Not Listed 95 – Wescar Corp. -Omega Telemus -I-Stat Canada
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible
11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) **(Missing All)**	-Information Inaccessible

Year: 1992	
Site Listing:	-Newbridge Networks
Adjacent Properties:	
March Road (495-720) **(No radius information. Available addresses listed individually.)**	555 – Address Not Listed 591 – Marchview Dry Cleaners -Technology Brokers -Appliance Experts -Vet. Hospital -Bytes Donuts 603 – Newbridge Networks
Aclam Terracen (30-120) **(Missing All)**	-Information Inaccessible
Ayton Lane (20-55) **(Missing All)**	-Information Inaccessible
Banchory Crescent (All) **(Missing All)**	-Information Inaccessible
Hines Road (40-95) **(No radius information. Available addresses listed individually.)**	70 – Address Not Listed 84 – Address Not Listed 88 – Address Not Listed 95 – Address Not Listed
Legget Drive (425-555) **(Missing All)**	-Information Inaccessible

11 McKinley Drive	-Information Inaccessible
3001 Solandt Road	-Information Inaccessible
Terry Fox Drive (355-385) (Missing All)	-Information Inaccessible

Kanata, Ontario is listed from 1992 to 2011 within the city directory archives*

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

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

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

Appendix E

Regulatory Documentation

File Number: D06-03-22-0011

February 24, 2022

Marc M. Bouchard
GHD Limited

*Sent via email [*marc.bouchard@ghd.com*]*

Dear Marc,

Re: Information Request
600 March Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation:

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- **Sewer Use Program:** The City's Sewer Use Program has found the following information pertaining to the subject property:
    - Violations of environmental statutes, regulations or bylaws, other environmental records.

Documents Provided:

HLUI Summary Report and HLUI Map

The HLUI Summary Report Excel spreadsheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided HLUI Map PDF. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at https://ero.ontario.ca/ contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact HLUI@ottawa.ca.

Sincerely,

Amya Martinov
Student Planner

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East

Planning Services
Planning, Infrastructure and Economic Development Department

MB / AM

Enclosures: (2)
1. HLUI Map
2. HLUI Summary Report

cc: File no. D06-03-22-0011

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP

EMRA Feature ID: 3

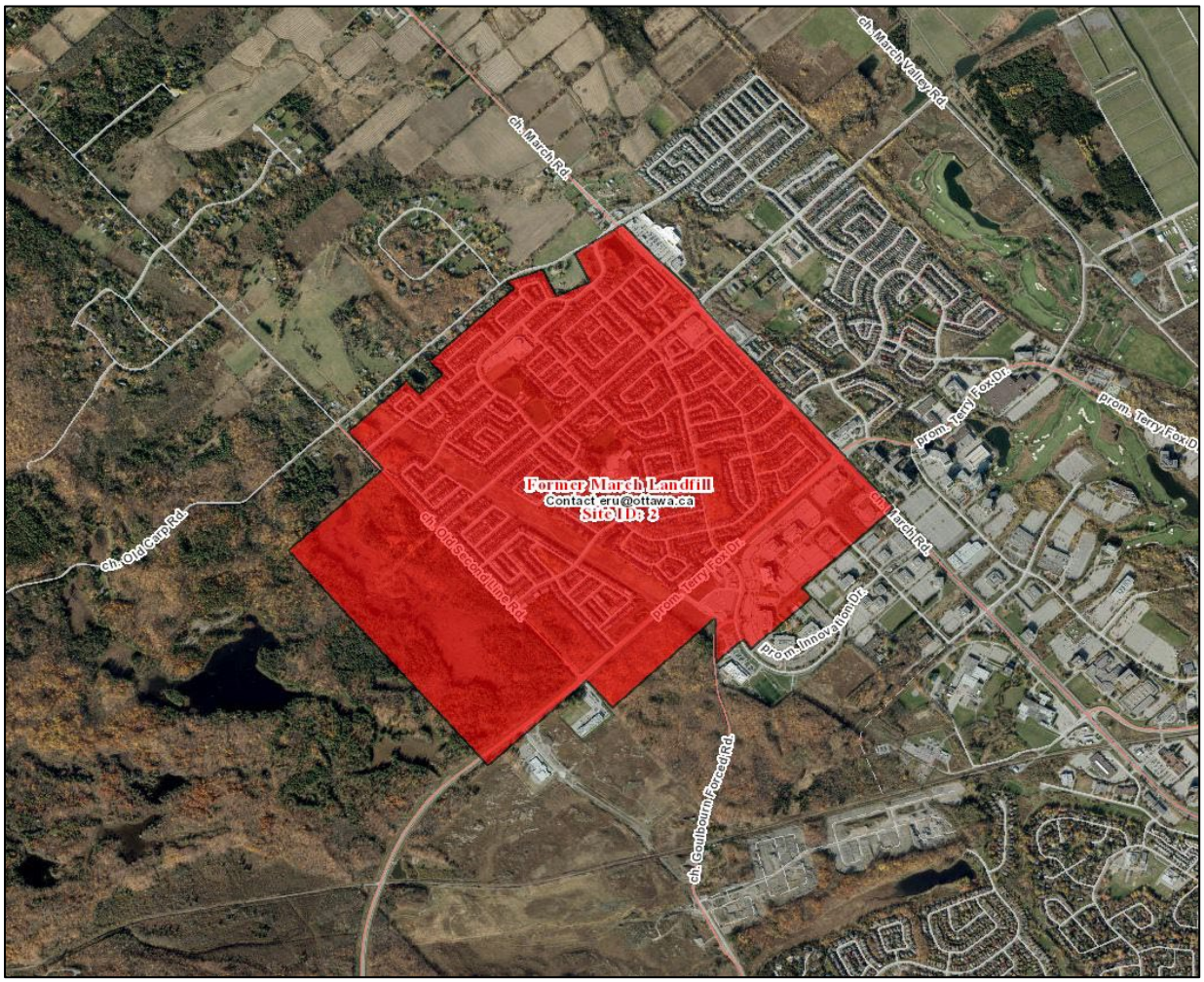
Legend

- Property Parcels - 600 March Road
- Environmental Risk Management Areas within 500m
- HLUI Area Features within 250m

0 340 680 1,020 METERS

Planning Co-op Student
Development Review West
Feb 24 2022
City of Ottawa

Environmental Risk Management Area (ERMA)
Site ID: 2
TERRY FOX DRIVE AT MARCH ROAD – FORMER MARCH LANDFILL



The historic March Landfill operated in this area from 1963 to 1974. There is known groundwater contamination (chlorinated solvents) that extends about 1.5 km from the former March Landfill. Special consideration should be given for projects involving management of groundwater (i.e. contact w/ groundwater, pumping and/or dewatering).

For more information please contact the City's Environmental Remediation Unit (ERU) at ERU-UAE@ottawa.ca

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK
7194	ALCATEL NETWORKS CORPORATION	Communication and Other Electronic Equipment Industries	2000-PID; 2001-ES; 2004-GWStudy; 2006-ES; 2012-ES	1	2000-2001	c. 2000; c. 2001	600	MARCH	RD	K2K2T6	45170813	KANATA	334220; 334290; 334410			
7195	NEWBRIDGE NETWORKS CORP	Communication and Other Electronic Equipment Industries	1996-KNBP; 1998-KBD; 1998-SC	1	1996-1998	c. 1996-1998	600	MARCH	RD	K2K2T6	45170813	KANATA	334110; 334210; 334220; 334410; 334511	335; 336	Design and Manufacture of Digital Communication Products	
7196	NOKIA CANADA	Information and cultural industries	2016-PID	1	2016	PID2016	600	MARCH	RD	K2K2T6	45170813	KANATA	513390			
7649	FORMER MARCH LANDFILL	Environmental Risk Assessment	2017-CityofOttawa-RemediationUnit; 2017-CityofOttawa-Landfill	1	2017											
5642	ONECHIP PHOTONICS	Manufacturing	2012-ES	1			495	MARCH	RD	K2K3G1	45180047	KANATA	334410			
5643	PICARRO INC	Professional, scientific and technical services	2006-ES	1			495	MARCH	RD	K2K3G1	45180047	KANATA	541710			
6058	SANMINA CORPORATION	Electronic Equipment & Supplies-Mfrs	2016-PID; 2017-SalesGenie	1	2016-2017	PID2016	500	MARCH	RD	K2K0J9	45170543	KANATA	334410			
8158	TEXAS INSTRUMENTS CANADA LIMITED	Communication and Other Electronic Equipment Industries	2001-ES	2	2001		505	MARCH	RD	K2K2M5	45180059	Kanata				
6099	CAPRICORN DATA (LASER)	Other Chemical Products Industries	2001-ES; 2004-GWStudy	1	2001	c. 2001	525	MARCH	RD	K2K2M5	45180057	KANATA	325910			
6104	TEKTRONIX CANADA	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES; 2004-GWStudy; 2005-SelectPhone	1	1998-2005	c. 1998; c. 2001; c. 2005	555	MARCH	RD	K2K2M5	45180067	KANATA	334210; 334220; 334410; 334511; 416110; 541380	335		
6105	ASAP-CD SOLUTIONS INC	Other Manufactured Products Industries	2001-ES	1	2001	c. 2001	555	MARCH	RD	K2K2M5	45180067	KANATA	334610			
6106	E-MEDIATE	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES	1	2001	c. 2001	555	MARCH	RD	K2K2M5	45180067	KANATA	443120			
7986	ROHDE AND SCHWARZ CANADA INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	1998-SC; 2001-ES	1	2001		555	MARCH	RD		45180067					
6100	PRINT THREE	Commercial Printing Industries	2001-ES	1	2001	c. 2001	591	MARCH	RD	K2K2M5	45180061	KANATA	323119			
6101	WINE CRAFT	Soft Drink Industry	2001-ES; 2006-ES	1	2001	c. 2001	591	MARCH	RD	K2K2M5	45180061	KANATA	312120			
6102	HILLARYS DRY CLEANERS	Laundries and Cleaners	1998-KBD; 1998-SC	1	1998	c. 1998	591	MARCH	RD	K2K2M5	45180061	KANATA	561740; 812310; 812320; 812330	972		
6103	MILLER'S QUALITY DRY CLEANERS	Laundries and Cleaners	2000-PID	1	2000	c. 2000	591	MARCH	RD	K2K2M5	45180061	KANATA	812320			
5273	INTEGRATED DEVICE TECHNOLOGY INC	Communication and Other Electronic Equipment Industries	2012-ES	1			603	MARCH	RD	K2K2M5	45180065	KANATA	334410			
7764	TRILLIUM TELEPHONE SYSTEMS	Communication and Other Electronic Equipment Industries	1985-M	1	1985		603	MARCH	RD		45180065	KANATA				
9124	TUNDRA SEMICONDUCTOR	Communication and Other Electronic Equipment Industries	2001-ES; 2004-GWStudy; 2006-ES; KanataIndustries-LHK-Industries	1	2001	c. 1985; c. 2001	603	MARCH	RD	K2K2M5	45180065	KANATA	334210; 334220; 334410; 334511	335		
7767	CARP QUALITY CLEANERS & LAUNDRY	Laundries and Cleaners	1994-1998-PID; 1998-SC; 2001-ES; 2006-ES; 2012-ES	1	1994-2001		700	MARCH	RD		45170816	KANATA				
10784	INTELATECH INC	Wholesale trade	2006-ES	1			700	MARCH	RD	K2K2V9	45170815	KANATA	417320			
9152	STAR FASHION CLEANERS	Laundries and Cleaners	1998-SC; 1998-WCTD; 2001-ES; 2006-ES; 2012-ES; 2017-SalesGenie	1	1998-2017	c. 1998; c. 1998-1999; c. 1999	700	MARCH	RD	K2K2V9	45170816	KANATA	561740; 812310; 812320; 812330	972		
9126	SHELL CANADA PRODUCTS	Gasoline Service Stations	2005-PropertyAssessment; 2006-ES; 2012-ES; 2017-SalesGenie	1	2005-2017	c. 2005	720	MARCH	RD	K2K2R9	45170784	KANATA	447110; 447190			
5262	BSI MANAGEMENT	Professional, scientific and technical services	2012-ES	1			515	LEGGET	DR	K2K3G4	45170902	KANATA	541380			
5263	CLEARFORD INDUSTRIES INC	Administrative and support, waste management and remediation services	2006-ES	1			515	LEGGET	DR	K2K3G4	45170902	KANATA	562210			
5585	DHS	Retail trade	2006-ES	1			525	LEGGET	DR	K2K2W2	45171135	KANATA	443110			
5598	ESIGHT CORP	Manufacturing	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	339110			
5599	IMS BROGAN	Professional, scientific and technical services	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	541710			
5600	PIKA TECHNOLOGIES INC	Manufacturing	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	334290			
5601	SOLACE SYSTEMS INC	Manufacturing	2012-ES	1			535	LEGGET	DR	K2K3B8	45171171	KANATA	334110			
6025	NORTEL - WAREHOUSE	Electric Lighting Industries	2001-ES; 2006-ES; 2012-ES	1	2006-2012	ES 2001; ES 2006; ES 2012	535	LEGGET	DR	K2K3B8	45171171	KANATA	334290; 541510			
5586	ACBEL	Manufacturing	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	334410			
5587	BLACKWOOD CORPORATE CENTRE TCC	Real estate and rental and leasing	2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	532310			
5588	BRECHIN GROUP INC	Manufacturing	2006-ES; 2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	323115			
5589	ECONORACK	Wholesale trade	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	417230			
5590	FLUKE ELECTRONICS	Retail trade	2001-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	443110			
5591	I2	Retail trade	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	443120			
5592	MINDSPEED INC	Professional, scientific and technical services	2001-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	541710			
5593	NAVISTAR DEFENSE CANADA	Manufacturing	2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	336990			
5594	RF-LAMBDA INC (CANADA)	Wholesale trade	2012-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	417320			
5595	STAR FASHION CLEANERS	Laundries and Cleaners	2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	812320			
5596	INDIGO ELECTRONICS	Retail trade	2001-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	443110			
5597	MARCH NETWORKS	Manufacturing	2001-ES; 2006-ES	1			555	LEGGET	DR	K2K2X3	45171170	KANATA	334310			
6024	SYNERGY PRINT AND COPY	Commercial Printing Industries	2001-ES; 2005-SelectPhone; 2006-ES; 2012-ES	1	2001-2012	c. 2001; c. 2005	555	LEGGET	DR	K2K2X3	45171170	KANATA	323114		#130	
7656	FERROTRONIC COMPONENTS INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2001-ES; 2005-SelectPhone	1	2001-2005		555	LEGGET	DR							
7657	FINE TECH INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2001-ES	1	2001		555	LEGGET	DR							
7658	HIVVA TECHNOLOGIES	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2005-SelectPhone	1	2005		555	LEGGET	DR							
7659	PMC SIERRA INC	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2005-SelectPhone; 2006-ES	1	2005		555	LEGGET	DR							
7660	SYMBOL TECHNOLOGIES CANADA	Electric Lighting Industries	2001-ES	1	2001		555	LEGGET	DR							

OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK
7661	TELEGUARD MONITORING SYSTEMS	Electric Lighting Industries	2005-SelectPhone	1	2005		555	LEGGET	DR							
5277	DRS EW & NETWORK SYSTEMS CANADA	Manufacturing	2006-ES	1			50	HINES	RD	K2K2M5	45180059	KANATA	339990			
5278	OM-VIDEO INC	Retail trade	2006-ES	1			50	HINES	RD	K2K2M5	45180059	KANATA	443110			
5279	POWER INTEGRATIONS	Manufacturing	2012-ES	1			50	HINES	RD	K2K2M5	45180059	KANATA	335990			
9138	CYRIUM TECHNOLOGIES	Manufacturing	2012-ES	1	2012	ES 2012	50	HINES	RD	K2K2M5	45180059	KANATA	334410; 335990			
9139	ELECTRO SOURCE INC	Semiconductor Devices, Microprocessors, Power Supply (Electrical)	2001-ES; 2004-GWStudy; 2006-ES	1	1984	GW Study 2004 Scotts	50	HINES	RD	K2K2M5	45180059	KANATA	419170	5065	50 Hines Rd	
9140	EXCALIBUR SYSTEMS LTD	Simulators, Electronic Components, Computer Software (Simulation), Radar Systems (Naval)	2001-ES; 2004-GWStudy	1	1988	GW Study 2004 Scotts	50	HINES	RD	K2K2M5	45180059	KANATA	333990	3699	50 Hines Rd	
9141	HUBER & SUHNER CANADA	Telecommunication Carriers Industry	2000-PID; 2001-ES	1	2000	c. 2000; c. 2001	50	HINES	RD	K2K2M5	45180059	KANATA	334290; 517110; 517210; 517310; 517410; 517910			
9142	XILINX INC	Semiconductors & Related Devices (Mfrs)	2006-ES; 2017-SalesGenie	1	2017	SalesGenie 2017	50	HINES		K2K2M5	45180059	KANATA	33441303	3674-98		
9143	ARROW ELECTRONICS CANADA LIMITED	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES; 2004-GWStudy; 2005-SelectPhone; 2006-ES; 2012-ES	2	2005	c. 2005	84	HINES	RD	K2K3G3	45180101	KANATA	417310; 417320; 443120		#100	
9144	SKYWORKS SOLUTIONS (TEST LAB)	Wholesale trade	2016-PID	1	2016	PID2016	84	HINES	RD	K2K3G3	45180101	KANATA	417310			
5280	ARROW-OTTAWA TECHNOLOGY CENTER (OT	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2012-ES	1			84	HINES	RD	K2K3G3	45180101	KANATA	416110			
5281	CERTICOM	Manufacturing	2006-ES	1			84	HINES	RD	K2K3G3	45180101	KANATA	331490			
5282	QUAKE TECHNOLOGIES	Manufacturing	2001-ES	1			84	HINES	RD	K2K3G3	45180101	KANATA	334410			
7765	TARAL NETWORKS	Electrical and Electronic Machinery, Equipment and Supplies, Wholesale	2005-SelectPhone	1	2005		84	HINES	RD		45180101					
6096	TELEMUS INC	Electrical and Electronic Machinery, Equipment And Supplies, Wholesale	2001-ES; 2005-SelectPhone; 2006-ES; 2017-SalesGenie	1	2005-2017	c. 2001; c. 2005	88	HINES	RD	K2K2T8	45180011	KANATA	334410; 417320			
5639	FLEXUS ELECTRONICS	Communication and Other Electronic Equipment Industries	2006-ES	1			88	HINES	RD	K2K2T8	45180011	KANATA	334410			
5640	HOLMES & BRAKEL BUSINESS INTERIORS	Retail trade	2012-ES	1			88	HINES	RD	K2K2T8	45180011	KANATA	442110			
5641	ULTRA ELECTRONICS TCS (TELEMUS)	Manufacturing	2012-ES	1			88	HINES	RD	K2K2T8	45180011	KANATA	334220			
5602	ALCATEL NETWORKS CORPORATION	Communication and Other Electronic Equipment Industries	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	334290			
5603	INTELLIGENT MEMS DESIGN INC	Manufacturing	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	335990			
5604	RIDGEWAY RESEARCH CORPORATION	Professional, scientific and technical services	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	541710			
5605	SMART TECHNOLOGIES INC	Manufacturing	2006-ES	1			359	TERRY FOX	DR	K2K2E7	45171172	KANATA	334110			
6026	SCIEMETRIC INSTRUMENTS INC	Controls Control Systems/Regulators-Mfrs	2017-SalesGenie	1	2017	SalesGenie 2017	359	TERRY FOX	DR	K2K2E7	45171172	KANATA	33451202	Apr-22	100	
5309	API FILTRAN	Semiconductors & Related Devices (Mfrs)	2012-ES	1			360	TERRY FOX	DR	K2K2P5	45170697	KANATA	334410			
5310	SCIEMETRIC INSTRUMENTS INC	Manufacturing	2006-ES	1			360	TERRY FOX	DR	K2K2P5	45170697	KANATA	334512			
9180	VOLEX CAPULUM INC	Communication and Other Electronic Equipment Industries	2001-ES	1	2001	c. 2001	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	334410			
9181	DICAP CORP	Communications and Energy Wire And Cable Industry	1998-SC	1	1998	c. 1998	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	335920	338		
9182	API TECHNOLOGIES CORP	Semiconductors & Related Devices (Mfrs)	2017-SalesGenie	1	2017	SalesGenie 2017	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	33441303	3674-98		
9183	ARTAFLEX INC	Electronic Equipment & Supplies-Mfrs	2017-SalesGenie	1	2017	SalesGenie 2017	360	TERRY FOX	DR	K2K2P5	45170697	KANATA	33441902	Jan-79		
5290	INNOCOR	Manufacturing	2006-ES	2			362	TERRY FOX	DR	K2K2P5	45170471	KANATA	334110			
5291	JDS UNIPHASE	Manufacturing	2012-ES	1			362	TERRY FOX	DR	K2K2P5	45170471	KANATA	334290			
5292	SERESCO TECHNOLOGIES INC	Professional, scientific and technical services	2006-ES	1			362	TERRY FOX	DR	K2K2P5	45170471	KANATA	541710			
9147	PFLEMINGCOM	Communications and Energy Wire And Cable Industry	2001-ES	1	2001	c. 2001	362	TERRY FOX	DR	K2K2P5	45170471	KANATA	335920			
9148	INSTANTEL INC	Communication and Other Electronic Equipment Industries	1998-KBD	1	1998	c. 1998	362	TERRY FOX	DR	K2K2P5	45170471	KANATA	334210; 334220; 334410; 334511	335	Design and manufacture blast mate seismographs and watch mate wandering patient systems.	

Marc Bouchard

From: Public Information Services <publicinformationservices@tssa.org>
Sent: January 7, 2022 5:51 PM
To: Marc Bouchard
Subject: RE: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

Follow Up Flag: Follow up
Flag Status: Flagged

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

NO RECORD FOUND

Hello Marc,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Sherees

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Marc Bouchard <Marc.Bouchard@ghd.com>
Sent: January 7, 2022 3:42 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: RE: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon Sherees,

Thank you kindly for this information. Would you mind also confirming the same for the following properties in the vicinity?

88 Hines Road
- 84 Hines Road
- 70 Hines Road
- 50 Hines Road
- 3001 Solandt Road
- 425 Legget Drive
- 515 Legget Drive
- 525 Legget Drive
- 535 Legget Drive
- 555 Legget Drive
- 362 Terry Fox Drive
- 360 Terry Fox Drive
- 359 Terry Fox Drive

Your assistance is appreciated,

Marc M. Bouchard
Project Scientist
Contaminated Site & Remediation Group | Eastern Canada

GHD
D 613 288 1724 **M** 613 878 6300 **E** marc.bouchard@ghd.com

---

From: Public Information Services <publicinformationservices@tssa.org>
Sent: January 6, 2022 8:16 PM
To: Marc Bouchard <Marc.Bouchard@ghd.com>
Subject: RE: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

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

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

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

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

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

Kind regards,

Sherees

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Marc Bouchard <Marc.Bouchard@ghd.com>
Sent: January 6, 2022 12:33 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: 12566614 / TSSA / Records of Registered or Licensed Fuel Storage Tanks / 495 to 706 March Road, Ottawa

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon,

Could the TSSA please advise if there are any records of registered or licensed fuel storage tanks for the following sites in Kanata (Ottawa), Ontario:

- 706 March Road
- 700 March Road
- 603 March Road
- 600 March Road
- 595 March Road
- 591 March Road
- 555 March Road
- 525 March Road
- 500 March Road
- 495 March Road

Your assistance is appreciated,

Thanks kindly,

Marc Bouchard
Project Scientist
Eastern Canada

GHD
Proudly employee-owned | ghd.com
179 Colonnade Road Suite 400 Ottawa Ontario K2E 7J4 Canada
D 613 288 1724 **M** 613 878 6300 **E** marc.bouchard@ghd.com

→ The Power of Commitment

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Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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

Ontario

September 7, 2022

Marc Bouchard
GHD Limited
179 Colonnade Road, Unit 400
Ottawa, Ontario K2E 7J4
marc.bouchard@ghd.com

Dear Marc Bouchard:

RE: MECP FOI A-2022-00221, Your Reference #: 20220106102449103 – Record Release Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to 600 March Road, Kanata, Ottawa.

Attached is a copy of the records.

If you have any questions, please contact Gita Ramburuth at 647-449-3079 or gita.ramburuth@ontario.ca.

Yours truly,

Gita Ramburuth

For

Ryan Gunn
Manager (A), Access and Privacy Office

Attachment

Ontario

Ministry of the Environment, Conservation and Parks

Generator Details

Registration/Notification Number

ON0044812

Legal Company Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Company Operating Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Mailing Address

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road	Address Line 2:	NA
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road		
Address Line 2:	NA		
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Company Official

Ontario

Ministry of the Environment, Conservation and Parks

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Company Name: **NOKIA CANADA**
Company Number: **ON0044812 (Generator)**

Active Waste Classes

Active Waste Class Listing

Add New Waste Class Inactive waste classes

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site	Status	UnRegister Waste Class
112 - C	View details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
121 - C	View Details	D002	5, 13	Potential Land Disposal	Y	Y	Solid	Off-Site	Active	☐
122 - C	View Details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
		D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
145 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	☐
146 - R	View Details	D003	5, 13	Land Disposal	Y	Y	Solid	Off-Site	Active	☐
146 - T	View Details	D009	5, 13	Out of Ontario - Potential Land Disposal	Y	Y	Solid	Off-Site	Active	☐
148 - B	View Details	U151	2B, 12	Land Disposal	Y	Y	Solid	Off-Site	Active	☐

148 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
212 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
		D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
212 - L	View Details	N/A					Liquid	Off-Site	Active
213 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
242 - A	View Details	P037	2A	Land Disposal	Y	Y	Liquid	Off-Site	Active
252 - L	View Details	N/A					Liquid	Off-Site	Active
263 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active
331 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active

Unregister Selected Classes

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Version Number 4.3.3

July 5, 2001

ALCATEL CANADA INC.
600 MARCH ROAD

KANATA, ON
K2K 2E6

Attention: MR. JOEL RABIDEAU

Re: Acknowledgement of Subject Waste Registration

In accordance with Subsection 18(3) of Ontario Regulation 347, this letter acknowledges receipt of your Generator Registration report dated June 26, 2001. The Generator Registration Number assigned to your company is:

ON0044812

for the site located at: 600 MARCH ROAD

KANATA
ON

A list of acknowledged waste number(s) is attached as Schedule 'A'. A waste number appears only once, regardless of the number of different waste streams which may have identical waste numbers. The waste description is also generic. However, you are still required to register all waste streams, even if they have identical waste numbers.

For off-site disposal of subject waste, the appropriate waste number(s) acknowledged in Schedule 'A', and the Generator Registration Number, must be entered in Part A of each manifest form after receipt of this generator registration document. Under Ontario's Environmental Protection Act, the property receiving the waste must be approved as a disposal site for the waste it is receiving. The disposal of waste at an uncertified site is illegal.

The selection of accurate waste numbers is your responsibility. This acknowledgement must not be considered a confirmation of the accuracy of the information submitted by you. Should the waste number(s) you have selected be deemed incorrect by the Ministry, or improper waste disposal occurs at any time, you may be subject to legal action as provided by the Environmental Protection Act and Regulation 347.

SCHEDULE 'A'

In accordance with information submitted with your generator registration report(s), the site indicated below is registered for the waste number(s) shown on this schedule, which may represent more than one waste stream. This attached Schedule forms part of the acknowledgement of generator registration report dated June 26, 2001 for the following site:

ALCATEL CANADA INC.
600 MARCH ROAD

KANATA
ON

identified by Generator Registration Number ON0044812, dated in Toronto, July 5, 2001

WASTE STREAM	WASTE NUMBER
ALKALINE WASTES - HEAVY METALS	121C
OTHER SPECIFIED INORGANICS	146T

----- *End of List* -----

Company Name: **NOKIA CANADA**
Company Number: **ON0044812 (Generator)**

Active Waste Classes

Active Waste Class Listing

Add New Waste Class Inactive waste classes

Active Off-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site	Status	UnRegister Waste Class
112 - C	View Details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
121 - C	View Details	D002	5, 13	Potential Land Disposal	Y	Y	Solid	Off-Site	Active	
122 - C	View Details	D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
		D002	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
145 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
146 - R	View Details	D003	5, 13	Land Disposal	Y	Y	Solid	Off-Site	Active	
146 - T	View Details	D009	5, 13	Out of Ontario - Potential Land Disposal	Y	Y	Solid	Off-Site	Active	
148 - B	View Details	U151	2B, 12	Land Disposal	Y	Y	Solid	Off-Site	Active	
148 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
212 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
		D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
212 - L	View Details	N/A					Liquid	Off-Site	Active	
213 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
242 - A	View Details	P037	2A	Land Disposal	Y	Y	Liquid	Off-Site	Active	
252 - L	View Details	N/A					Liquid	Off-Site	Active	
263 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	
331 - I	View Details	D001	5, 13	Land Disposal	Y	Y	Liquid	Off-Site	Active	

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Generator Details

Registration/Notification Number

ON0044812

Legal Company Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Company Operating Name

Primary Name:	NOKIA CANADA	Division Name:	NA

Mailing Address

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road	Address Line 2:	NA
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:	Corporate	Post Box Number:	NA
Address Line 1:	600 March Road		
Address Line 2:	NA		
Town/City:	Kanata	Postal Code / Zip Code:	K2K 2E6
County: (if inside Ontario)	OTTAWA CARLTON (RM)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Company Official

The Company Official is the individual within your organization who is responsible for managing hazardous and liquid industrial waste. The Company Official will also serve as an HWIN Administrator for the organization. The Company Official may also delegate HWIN responsibilities to other individuals. You may designate this responsibility in the Additional HWIN Administrator section below.

Name : Mr Roy Bean

Designation:	Facilities Services Technicain	Business Phone:	3435533921 Ext : NA
Mobile:	NA	Fax Number:	NA Ext : NA
Email Address:	roy.bean.ext@nokia.com	User Name:	alcatel

Additional HWIN Administrator

The HWIN Company Official may delegate HWIN Administrator responsibility to other individuals. One additional administrator may be defined below and / more administrators may be registered by an HWIN Administrator after initial registration.

Name:			
Designation:		Business Phone:	Ext :
Mobile:		Fax Number:	Ext :
Email Address:		User Name:	

Contact Person

HWIN requires that you designate one person to serve as the contact person who will receive all HWIN e-mail messages. Please indicate below whether you want the Company Official or the Additional HWIN Administrator to serve as the contact person.

Company Official

Does your organization manage waste on-site? No

NAICS Codes

NAICS Code 1	513390
NAICS Code 2	NA
NAICS Code 3	NA

Company MOE Password: NO35OEFD Company Status: REGISTERED

Added by: Generator

UTM Coordinates

The coordinates provided by Global Positioning System (GPS) units is primarily based on the Universal Transverse Mercator (UTM) projection. These coordinates describe a point location, such as the front gate of a property, by the 'easting' (always a 6 digit number) and 'northing' (always a 7 digit number). Please enter your coordinates to the nearest metre."

UTM X-value: (easting) UTM Y-value: (northing)

Site Historical Records

NAICS Historical Records

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Ministry of the Environment

OCCURENCE REPORT

Location of Occurence: OTTAWA CITY 600 MARCH ROAD, KANATA, ONTARIO K2K 2F6 **Reg:** 4 **Dist:** OT **Municipality:** 20107		**Source:** ALCATEL NETWORKS CORPORTION PO BOX 13600, 600 MARCH RD.,KANATA,ONT. **Sector: Source: SIC:** **UTM:** **N:** [] **E:** [] **Zone:** []	
Entered: 2001/08/14 07:52	**ORIS No.** 9940008651	**Abstracts:** 0	**Diaries:** 0
Received By: CAROL BOOTH		**Batch:** 3958	**I. E. B. No.**
Occurence Type: O	**Subtype:** 99	**Occurence Date:**	2001/08/14
Work Plan:	WH	**Occurence Time:**	
Reported By: DAN DRAIN ALL		**Report to MOE :** 2001/08/14 00:00 **MOE at Scene:**	
Telephone No. 613-739-1070 **x**	**Alternate No.** **x**	**Assigned To:**	TOR RUSTAD
Address: 2705 STEVENAGE DRIVE, R. R. #4 GLOUCESTER, **Postal Code:** K1G 3N4		**ERP Contacted:** **Callout:** [] **ERP Name:**	**NSP:** []

Syn: ISSUED EMERGENCY GENERTOR NUMBER

Brief Summary:
ISSUED EMERGENCY GENERATOR NUMBER FOR MANIFEST: MM75869-6, FOR WASTE CLASS NUMBER 265L WASTE(LIQUID INDUSTRIAL WASTE "GLUE").

If there are related reports, record initial/master ORIS No. here >>

Followup Action: X **Abatement IEB Other**
BF Date:

File Closed: Y **Abatement: IEB Other**
Suspected Violation:

Report Prepared By:	**Date:**	**IEB Investigator:**	**IEB BF Date**
CAROL BOOTH	08/14/2001		
Approving Officer	**Date:**	**Reviewing Officer:**	**Date**
PAUL KEHOE	08/14/2001		

Specify number(s) for routing Original [ ] [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ] [ ]

1. Investigator/E.O. **2. D. O. /File** **3. SAC (initial spills)**
4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: 1: 2:

Material 1:	**Code :**
Amount :	**UN No.:**
Material 2:	**Code :**
Amount :	**UN No.:**
Material 3:	**Code :**
Amount :	**UN No.:**

Cause. . . . . :
Reason. . . . . :

Code. . :
Code. . :

Person in Control:
Owner . . . . . :
Agencies Involved . . . . :

Waste GenNum :
Waste GenNum :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:

Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class :
Hauler :
Disposal Site :

Code . . :
Code . . :
Code . . :

Environmental Impact:

Nature of Impact:

Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage:

Code . . :

Ontario

Ministry of the Environment

OCCURENCE REPORT

Location of Occurence:
OTTAWA CITY
600 MARCH RD.,BOX 13600,KANATA, K2K 2E6

Reg: 4 **Dist:** OT **Municipality:** 20107

Source:
ALCATEL
COMMUNICATIONS INFRASTRUCTURE
Sector: SI **Source:** OT **SIC:** 9999
UTM:
N: [] **E:** [] **Zone:** []

Entered:	ORIS No.	Abstracts:	Diaries:
2001/07/12 13:39	9940008288	0	0

Received By:	Batch:	I. E. B. No.
CAROL BOOTH	4027	

Occurence Type:	Subtype:	Occurence Date:	2001/07/12
O	99		
Work Plan:	WH	**Occurence Time:**	

Reported By:
DRAIN ALL LTD.

Report to MOE : 2001/07/12 00:00
MOE at Scene:

Telephone No.	Alternate No.	Assigned To:	MARLA WILLIAMS
613-739-1070 x	x		

Address:
2705 STEVENAGE DRIVE
GLOUCESTER, ONTARIO
Postal Code: K1G 3N2

ERP Contacted:
Callout: []
ERP Name:
NSP: []

Syn: ISSUED EMERGENCY GENERATOR NUMBER

Brief Summary:
ISSUED EMERGENCY GENERATOR NUMBER FOR MANIFEST: SS42981-0, FOR WASTE CLASS NUMBER 263A WASTE(POISONOUS SOLIDS NOS. "2 CYCLOHEXYL-4, 6-DINITROPHENOL)

If there are related reports, record initial/master ORIS No. here >>

Followup Action: X **Abatement IEB Other**
BF Date:

File Closed: Y **Abatement: IEB Other**
Suspected Violation:

Report Prepared By:	Date:	IEB Investigator:	IEB BF Date
CAROL BOOTH	07/12/2001		

Approving Officer	Date:	Reviewing Officer:	Date
PAUL KEHOE	07/12/2001		

Specify number(s) for routing Original [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ]
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4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: 1: 2:

Material 1: **Code :**
Amount : **UN No.:**
Material 2: **Code :**
Amount : **UN No.:**
Material 3: **Code :**
Amount : **UN No.:**

Cause. . . . . :
Reason. . . . . :

Code. . :
Code. . :

Person in Control:
Owner . . . . . :
Agencies Involved . . . . :

Waste GenNum :
Waste GenNum :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:

Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class :
Hauler :
Disposal Site :

Code . . :
Code . . :
Code . . :

Environmental Impact:

Nature of Impact:

Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage:

Code . . :

Ontario

Ministry of the Environment

OCCURENCE REPORT

Location of Occurence: OTTAWA CITY 600 MARCH ROAD, KANATA WARD **Reg:** 4 **Dist:** OT **Municipality:** 20107		**Source:** ALCATEL COMMUNICATIONS INFRASTRUCTURE **Sector:** SI **Source:** OT **SIC:** 9999 **UTM:** **N:** [] **E:** [] **Zone:** []	
Entered: 2001/05/18 13:45	**ORIS No.** 9940007645	**Abstracts:** 0	**Diaries:** 0
Received By: TOR RUSTAD		**Batch:** 3938	**I. E. B. No.**
Occurence Type: O	**Subtype:** 99	**Occurence Date:**	
Work Plan:	AI	**Occurence Time:**	
Reported By: TOR RUSTAD ENVIRONMENT, OTTAWA DISTRICT		**Report to MOE :** 2001/05/11 00:00 **MOE at Scene:**	
Telephone No. 613-521-3450 **x**	**Alternate No.** - - **x**	**Assigned To:**	TOR RUSTAD
Address: 2435 HOLLY LANE OTTAWA **Postal Code:** K1V 7P2		**ERP Contacted:** **Callout:** [] **ERP Name:**	**NSP:** []

Syn: ALCATEL- FAIL TO SUBMIT STORAGE REPORT FOR SUBJECT WASTES

Brief Summary:
MINISTRY STAFF CONDUCTED AN INSPECTION TO DETERMINE ALCATEL'S COMPLIANCE WITH REGULATION 347. ALCATEL HAD NOT SUBMITTED A WASTE STORAGE REPORT FORM. STAFF AT ALCATEL STORED SUBJECT WASTES FOR MORE THAN 90 DAYS WITHOUT FILING A REPORT FORM AND THIS IS CONTRARY TO SUBSECTION 18(10) OF REGULATION 347. .... JUNE 22, 2001: THE WASTE STORAGE REPORT FORM WAS SUBMITTED TO THE MINISTRY. NO FURTHER ACTION REQUIRED.

If there are related reports, record initial/master ORIS No. here >> s.21

Followup Action: **Abatement** **IEB** **Other**
BF Date:

File Closed: X **Abatement:** **IEB** **Other**
Suspected Violation:

Report Prepared By: TOR RUSTAD	**Date:** 07/24/2001	**IEB Investigator:**	**IEB BF Date**
Approving Officer PAUL KEHOE	**Date:** 07/24/2001	**Reviewing Officer:**	**Date**

Specify number(s) for routing Original [ ] [ ] [ ] [ ] [ ] **Continued** [ ] **Yes**
Specify number(s) for copy distribution [ ] [ ] [ ] [ ] [ ] [ ]

1. Investigator/E.O. **2. D. O. /File** **3. SAC (initial spills)**
4. Reg. Dir. /_____ Mgr. **5. IEB Reg. Spv** **6. IEB H.O./file** **7. Other _____**

SAC Action Class: **1:** **2:**

Material 1:	**Code :**
Amount :	**UN No.:**
Material 2:	**Code :**
Amount :	**UN No.:**

Material 3: Code :
Amount : UN No.:

Cause. . . . . : Code. . :
Reason. . . . . : Code. . :

Person in Control: Waste GenNum :
Owner . . . . . : Waste GenNum :
Agencies Involved . . . . :

Clean up and Restoration Carried out by:
[v] Controller [v] Owner [N] Other

% Cleaned up: Estimated Cost:
Were Directions or Approval Given Under
EPA Part X [v] Regulation 362 [v] Manifest No.

Waste Class : Code . . :
Hauler : Code . . :
Disposal Site : Code . . :

Environmental Impact: Nature of Impact:
Code . . :

People/Business Damaged
(Other than to Owner/Controller) :
Nature of Damage: Code . . :

Appendix F

ERIS Database Summary

DATABASE REPORT

Project Property:	*600 March Road, Ottawa, Ontario* *600 March Road* *Kanata ON K2K 2T6*
Project No:	*12566614*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22010600440*
Requested by:	*GHD Limited*
Date Completed:	*January 18, 2022*

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

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property:	*600 March Road, Ottawa, Ontario* *600 March Road Kanata ON K2K 2T6*
Project No:	*12566614*

Order Information:

Order No:	*22010600440*
Date Requested:	*January 6, 2022*
Requested by:	*GHD Limited*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*CD - Subject Site plus 250m Radius*
Land Title Search	*Historical Land Title Search*
Topographic Map	*RSC Maps*
Topographic Map	*National Topographic Maps*

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	3	3
CA	Certificates of Approval	Y	0	30	30
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	4	4
EASR	Environmental Activity and Sector Registry	Y	0	3	3
EBR	Environmental Registry	Y	0	6	6
ECA	Environmental Compliance Approval	Y	0	25	25
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	46	46
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	8	8
FSTH	Fuel Storage Tank - Historic	Y	0	2	2
GEN	Ontario Regulation 347 Waste Generators Summary	Y	12	95	107
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	3	3
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	4	62	66
SPL	Ontario Spills	Y	0	6	6
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	8	8
	Total:		16	302	318

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	NW/0.0	-0.02	66
1	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	NW/0.0	-0.02	66
1	SCT	Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW/0.0	-0.02	66
1	SCT	Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW/0.0	-0.02	67
2	GEN	ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	NW/0.0	-0.05	67
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	67
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	68
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	68

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/0.0	-0.05	68
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON	NW/0.0	-0.05	69
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	69
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	70
2	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	71
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	72
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	73
2	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/0.0	-0.05	73

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	GEN	Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	E/2.0	-2.14	74
4	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	E/2.5	-2.05	75
5	CA	MINTO DEVELOPMENTS INC.	LEGGET DR/TERRY FOX DR/SOLANDT KANATA CITY ON	N/12.8	-1.99	75
6	CA	KANATA RESEARCH PARK CORP.	TERRY FOX DR. MARCH RD. KANATA CITY ON	WNW/23.7	1.03	75
6	CA	TAYSHAM INVESTORS INC.	MARCH ROAD, TERRY FOX DR. KANATA CITY ON	WNW/23.7	1.03	76
6	SPL		Terry Fox and March Rd Ottawa ON	WNW/23.7	1.03	76
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	76
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	77
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	78
7	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/27.8	-1.05	79
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	80
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	80

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
8	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/38.7	-1.99	81
9	WWIS		lot 9 con 3 ON ***Well ID:*** 1503345	WSW/49.9	1.92	81
10	EHS		535 Legget Drive Kanata ON K2K 3B8	ENE/60.0	-3.86	84
10	CA	Nortel Networks Corporation	535 Legget Drive Ottawa ON	ENE/60.0	-3.86	84
10	CA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON	ENE/60.0	-3.86	84
10	SCT	Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	ENE/60.0	-3.86	85
10	SCT	PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	ENE/60.0	-3.86	85
10	SCT	Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	ENE/60.0	-3.86	85
10	NPRI	KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	ENE/60.0	-3.86	86
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	88

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
10	ECA	Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	ENE/60.0	-3.86	88
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	89
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	89
10	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	ENE/60.0	-3.86	89
11	EHS		700 March Road Ottawa ON	NW/69.7	-0.81	90
12	ECA	Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	ENE/70.7	-2.67	90
13	WWIS		lot 9 con 3 ON ***Well ID:*** 1510215	W/76.5	2.20	90
14	SCT	CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	SW/78.4	1.86	93
14	SCT	Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	SW/78.4	1.86	94
15	ECA	Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	SE/81.0	-1.74	94
15	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/81.0	-1.74	94
16	EHS		510-528 March Road Kanata ON	SE/81.4	-2.05	95
16	EHS		528 March Road Ottawa ON	SE/81.4	-2.05	95

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
16	EASR	SCI BROCKVILLE CORP.	528 MARCH KANATA ON	SE/81.4	-2.05	96
16	EASR	SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	SE/81.4	-2.05	96
17	GEN	MILLER'S QUALITY DRY CLEANERS	591 MARCH ROAD KANATA ON K2K 2M5	W/89.1	2.20	96
17	EHS		591 March Road Kanata ON K2K 2M5	W/89.1	2.20	96
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	97
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	97
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	97
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	98
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON	W/89.1	2.20	98
17	EHS		591 March Rd Ottawa ON K2K2M5	W/89.1	2.20	98
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	99
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	99
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	99

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	100
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	100
17	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	W/89.1	2.20	100
18	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	S/89.5	0.95	101
18	EHS		505 March Road Ottawa ON	S/89.5	0.95	101
18	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	S/89.5	0.95	101
18	SCT	Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	S/89.5	0.95	101
18	SPL	Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	S/89.5	0.95	102
19	CA	MKB RESTAURANTS (CS) LIMITED	700 MARCH ROAD KANATA CITY ON K2K 2V9	NW/90.9	-1.05	102
19	GEN	RAJANS PHARMACIES LTD.	700 MARCH ROAD KANATA ON K2K 2V9	NW/90.9	-1.05	102
19	SCT	Amika Mobile Corporation	700 March Rd Suite 203 Kanata ON K2K 2V9	NW/90.9	-1.05	103
19	GEN	Kanata North Medical Centre	700 March Rd Kanata ON K2K 2V9	NW/90.9	-1.05	103
20	WWIS		lot 9 con 3 ON	WSW/93.9	2.95	103

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1503344			
21	BORE		ON	W/95.8	2.99	106
22	SCT	NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	NE/99.2	-1.99	107
22	SCT	NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	NE/99.2	-1.99	107
22	SCT	March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	NE/99.2	-1.99	108
22	GEN	TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	NE/99.2	-1.99	108
22	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	NE/99.2	-1.99	109
22	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	NE/99.2	-1.99	109
22	SCT	March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	NE/99.2	-1.99	109
22	SCT	March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	NE/99.2	-1.99	109
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	110
22	SCT	Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	NE/99.2	-1.99	110
22	GEN	March Networks	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	111
22	CA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON	NE/99.2	-1.99	112

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
22	SCT	Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	NE/99.2	-1.99	112
22	SCT	Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	NE/99.2	-1.99	112
22	SCT	Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	NE/99.2	-1.99	112
22	SCT	Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	NE/99.2	-1.99	113
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	113
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	114
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	115
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	116
22	NPRI	KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	NE/99.2	-1.99	116
22	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NE/99.2	-1.99	119
22	EHS		555 Legget Dr Ottawa ON K2K2X3	NE/99.2	-1.99	120
22	EHS		555 Legget Dr Ottawa ON K2K2X3	NE/99.2	-1.99	120
22	ECA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	120

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
22	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	120
22	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	121
22	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	122
22	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	123
22	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	124
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	125
22	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NE/99.2	-1.99	125
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	126
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	126
22	EHS		555 Legget Drive Kanata ON K2K 3B8	NE/99.2	-1.99	126
23	SCT	Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	SSE/106.7	-1.14	126
23	GEN	KRP Properties	40 Hines Road Ottawa ON K2K 2M5	SSE/106.7	-1.14	127
24	SCT	Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	E/107.7	-3.19	127

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
24	SCT	Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	E/107.7	-3.19	127
24	SPL	Kanata Research Park Corporation	515 Legget drive Ottawa ON	E/107.7	-3.19	127
24	CA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON	E/107.7	-3.19	128
24	SCT	Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	E/107.7	-3.19	128
24	HINC		515 LEGGET DRIVE KANATA ON	E/107.7	-3.19	128
24	EHS		515 Legget Drive Ottawa ON	E/107.7	-3.19	129
24	NPRI	KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	E/107.7	-3.19	129
24	EHS		515 Legget Dr Ottawa ON K2K3G4	E/107.7	-3.19	131
24	ECA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	E/107.7	-3.19	132
25	EHS		525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	ENE/119.0	-4.75	132
25	ECA	Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	ENE/119.0	-4.75	132
26	EHS		70 Hines Rd. Kanata ON K2K 2M5	SSW/119.6	1.95	132
26	CA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON	SSW/119.6	1.95	133

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	ECA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	SSW/119.6	1.95	133
26	SPL	Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	SSW/119.6	1.95	133
27	EHS		80 Hines Road n/a ON K2K 2T8	SSW/119.7	2.67	134
27	GEN	AMCC	80 Hines Rd. Kanata ON K2K 2T8	SSW/119.7	2.67	134
28	SCT	ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	WSW/121.8	2.99	134
28	SCT	TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	Localcity	555 March Rd Kanata ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	Local City Inc.	555 March Rd Kanata ON K2K 2M5	WSW/121.8	2.99	135
28	SCT	ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	WSW/121.8	2.99	136
28	EHS		555 March Road Ottawa (Kanata) ON	WSW/121.8	2.99	136
29	CA	NEWBRIDGE NETWORKS CORP. - 8-4051-90	603 MARCH ROAD (8-4053-90) KANATA CITY ON K2K 2M5	W/135.6	2.88	136
29	CA	NEWBRIDGE NETWORKS CORP. 8-4052-90	603 MARCH ROAD KANATA CITY ON K2K 2M5	W/135.6	2.88	137

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
29	CA	NEWBRIDGE NETWORKS CORP. - 8-4053-90	603 MARCH ROAD (8-4051-90) KANATA CITY ON K2K 2M5	W/135.6	2.88	137
29	CA	NEWBRIDGE NETWORKS CORP. - 8-4052-90	603 MARCH ROAD (8-4054-90) KANATA CITY ON K2K 2M5	W/135.6	2.88	137
29	SCT	TUNDRA SEMICONDUCTORS CORPORAT	603 MARCH RD KANATA ON K2K 2M5	W/135.6	2.88	138
29	SCT	Tundra Semiconductor Corp	603 March Rd Kanata ON K2K 2M5	W/135.6	2.88	138
29	CA		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	138
29	GEN	TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	138
29	GEN	TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	139
29	GEN	TRILLIUM TELEPHONE SYSTEMS INC. 38-102	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	139
29	GEN	TRILLIUM TELEPHONE (OUT OF BUS)	603 MARCH ROAD KANATA ON K2K 2M5	W/135.6	2.88	139
29	GEN	NEWBRIDGE NETWORKS CORPORATION 28-807	603 MARCH ROAD C/O 600 MARCH RD., P.O.BOX 13600 KANATA ON K2K 2M5	W/135.6	2.88	140
29	GEN	Tundra Semiconductor Corporation	603 March Road Kanata ON K2K 2M5	W/135.6	2.88	140
29	SCT	IDT Canada	603 March Rd Kanata ON K2K 2M5	W/135.6	2.88	140
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	140

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	141
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	141
29	EHS		603 March Road Kanata ON K2K 2M5	W/135.6	2.88	141
29	EHS		603 March Rd Kanata ON K2K 2M5	W/135.6	2.88	141
30	ECA	D.I.R. Investments Inc.	Ottawa ON K0A 1A0	WSW/141.1	3.80	141
31	GEN	Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	ESE/152.1	-4.05	142
32	SCT	EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	S/155.3	0.95	142
32	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	S/155.3	0.95	142
32	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	S/155.3	0.95	143
32	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	S/155.3	0.95	143
32	SCT	DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	S/155.3	0.95	143
32	SCT	WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	S/155.3	0.95	143
32	EBR	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	S/155.3	0.95	144

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	SCT	Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	S/155.3	0.95	144
32	SCT	OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	S/155.3	0.95	144
32	EBR	Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	S/155.3	0.95	145
32	CA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	S/155.3	0.95	145
32	CA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	S/155.3	0.95	145
32	SCT	Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	S/155.3	0.95	146
32	GEN	GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	S/155.3	0.95	146
32	ECA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	S/155.3	0.95	146
32	ECA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	S/155.3	0.95	147
33	EHS		595 March Road, Block E Kanata ON	W/165.4	3.02	147
34	SCT	TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	SSW/169.0	2.92	147
34	GEN	Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	SSW/169.0	2.92	147
34	SCT	Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	SSW/169.0	2.92	148

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
34	GEN	Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	SSW/169.0	2.92	148
34	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	SSW/169.0	2.92	148
34	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	SSW/169.0	2.92	149
34	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	SSW/169.0	2.92	149
35	SCT	INSTANTEL INC.	362 TERRY FOX DR KANATA ON K2K 2P5	NNE/169.3	-6.50	149
35	SCT	Coyle Publishing Inc.	362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	NNE/169.3	-6.50	150
36	CA	WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	SW/173.5	3.95	150
36	SCT	Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SW/173.5	3.95	150
36	SCT	Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SW/173.5	3.95	150
36	GEN	Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	SW/173.5	3.95	151
36	SCT	Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	SW/173.5	3.95	151
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON	SW/173.5	3.95	151
36	SCT	Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	SW/173.5	3.95	152

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	SW/173.5	3.95	152
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	SW/173.5	3.95	153
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	SW/173.5	3.95	153
36	GEN	ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	SW/173.5	3.95	154
36	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	SW/173.5	3.95	154
37	GEN	Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	SW/173.7	3.95	155
37	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	SW/173.7	3.95	155
37	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	SW/173.7	3.95	156
38	WWIS		591 MARCH ROAD lot 9 con 3 KANATA ON ***Well ID:*** 7151742	WSW/179.6	3.89	157
39	BORE		ON	SSE/189.5	-1.02	160
40	WWIS		lot 8 con 3 ON ***Well ID:*** 1503343	SSE/189.6	-1.02	161
41	WWIS		3001 SOLANDT RD. KANATA ON ***Well ID:*** 7296271	SE/191.0	-2.36	164
42	EHS		706, 710, and 714 March Road Ottawa ON K2K 2R9	NW/196.1	-1.02	172

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	EHS		710 March Road Kanata ON K2K 2V9	NW/199.2	-1.11	172
44	EHS		495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K	S/200.0	0.25	172
45	SCT	VOLEX CAPULUM INC.	360 TERRY FOX DR KANATA ON K2K 2P5	NNE/202.7	-8.05	173
45	SCT	VOLEX CANADA INC.	360 Terry Fox Dr Kanata ON K2K 2P5	NNE/202.7	-8.05	173
45	SCT	Sciemetric Instruments Inc	360 Terry Fox Dr Kanata ON K2K 2P5	NNE/202.7	-8.05	173
45	CA	Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON	NNE/202.7	-8.05	174
45	SCT	Filtran Limited	360 Terry Fox Dr Kanata ON K2K 2P5	NNE/202.7	-8.05	174
45	SCT	Emcon Emanation Control Ltd.	360 Terry Fox Dr Nepean ON K2E	NNE/202.7	-8.05	174
45	EBR	Filtran Limited	360 Terry Fox Drive Ottawa CITY OF OTTAWA ON	NNE/202.7	-8.05	175
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	175
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	175
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	176

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON	NNE/202.7	-8.05	176
45	ECA	Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON K2K 2X3	NNE/202.7	-8.05	177
45	GEN	Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	NNE/202.7	-8.05	177
45	GEN	Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
45	EHS		360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
45	GEN	Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
45	GEN	Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	NNE/202.7	-8.05	178
46	CA	NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7	NE/207.8	-6.07	179
46	SCT	ELCOMBE SYSTEMS LIMITED	359 TERRY FOX DR KANATA ON K2K 2E7	NE/207.8	-6.07	179
46	CA		359 Terry Fox Drive Kanata ON K2K 2E7	NE/207.8	-6.07	179
46	GEN	NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA ON K2K 2E7	NE/207.8	-6.07	179
46	GEN	NEWBRIDGE NETWORKS CORPORATION 28-523	359 TERRY FOX DRIVE KANATA ON K2K 2E7	NE/207.8	-6.07	180
46	EHS		359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	180

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
46	EBR	Smart Technologies Inc.	359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	NE/207.8	-6.07	180
46	EHS		359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	181
46	GEN	Smart Technologies Inc	359 Terry Fox Drive - North Kanata ON	NE/207.8	-6.07	181
46	CA	Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	182
46	CA	Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON	NE/207.8	-6.07	182
46	SCT	Sciemetric Instruments Inc.	359 Terry Fox Dr Kanata ON K2K 2E7	NE/207.8	-6.07	182
46	SCT	Pleora Technologies Inc.	359 Terry Fox Dr Unit 230 Kanata ON K2K 2E7	NE/207.8	-6.07	183
46	ECA	Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON K2K 2E7	NE/207.8	-6.07	183
46	ECA	Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON K2K 2X3	NE/207.8	-6.07	183
46	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NE/207.8	-6.07	184
46	GEN	Public Health Agency of Canada - Kanata	359 Terry Fox Drive Kanata ON K2K2E7	NE/207.8	-6.07	184
46	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NE/207.8	-6.07	184
46	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NE/207.8	-6.07	185

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
46	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NE/207.8	-6.07	185
46	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NE/207.8	-6.07	186
47	SCT	SR TELECOM	425 LEGGET DR KANATA ON K2K 2W2	ESE/209.2	-2.94	186
47	EHS		425 Legget Dr Kanata ON K2K 2W2	ESE/209.2	-2.94	186
47	GEN	SR TELECOM INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	ESE/209.2	-2.94	187
47	GEN	C-MAC KANATA INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	ESE/209.2	-2.94	187
47	GEN	C-MAC KANATA INC.	425 LEGETT DRIVE KANATA ON K2K 2W2	ESE/209.2	-2.94	187
47	GEN	C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY	425 LEGETT DRIVE KANATA ON	ESE/209.2	-2.94	188
47	SCT	Solectron EMS Canada	425 Legget Dr Kanata ON K2K 2W2	ESE/209.2	-2.94	189
47	EHS		425 Legget Drive Ottawa ON	ESE/209.2	-2.94	189
47	EASR	AVAYA CANADA CORP	425 LEGGET DRIVE OTTAWA ON K2K 2W2	ESE/209.2	-2.94	189
47	ECA	425 Legget Drive Property GP Inc.	425 Legget Dr Ottawa ON	ESE/209.2	-2.94	189
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190
47	EHS		425 Legget Drive Kanata ON K2K 3C9	ESE/209.2	-2.94	190
48	BORE		ON	W/216.8	3.86	190
49	WWIS		lot 9 con 3 ON ***Well ID:*** 1503346	W/216.8	3.86	192
50	CA	COLONNADE DEVELOPMENT INC.	60 HINES RD., PH. 1, SWM KANATA ON K2K 2M5	SSW/217.9	1.98	194
50	CA	COLONNADE DEVELOPMENT INC.	SWM-60 HINES RD.PH.2 KANATA ON K2K 2M5	SSW/217.9	1.98	194
51	EHS		370-450 Huntmar Drive Ottawa ON	ESE/219.5	-2.97	195
52	CA	LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	SE/235.2	-2.08	195
52	CA	LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	SE/235.2	-2.08	195
52	SCT	LOCKHEED MARTIN CANADA INC	3001 SOLANDT RD KANATA ON K2K 2M8	SE/235.2	-2.08	195
52	SCT	Lockheed Martin Canada Inc.	3001 Solandt Rd Kanata ON K2K 2M8	SE/235.2	-2.08	196
52	CA		3001 Solandt Road Kanata ON K2K 2M8	SE/235.2	-2.08	196

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	196
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	197
52	EBR	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON K2K 2M8	SE/235.2	-2.08	198
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	198
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	199
52	GEN	MORGUARD INVESTMENTS LTD.	3001 SOLANDT STREET KANATA ON	SE/235.2	-2.08	200
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	200
52	EBR	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	SE/235.2	-2.08	201
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON	SE/235.2	-2.08	201
52	EHS		3001 Solandt Road Kanata ON	SE/235.2	-2.08	201
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON	SE/235.2	-2.08	202
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	SE/235.2	-2.08	202
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Road Kanata ON K2K 2M8	SE/235.2	-2.08	203

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
52	ECA	Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	SE/235.2	-2.08	203
52	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/235.2	-2.08	203
52	GEN	Morguard Investments	3001 Solandt Rd Kanata ON K2K 3M8	SE/235.2	-2.08	204
53	WWIS		O HINES DRIVE KANATA ON ***Well ID:*** 7218163	W/243.3	4.95	204
54	CA		495 March Road Kanata ON K2K 3G1	SSE/244.3	-1.14	208
54	SCT	Dinmar Consulting Inc.	495 March Rd Suite 400 Kanata ON K2K 3G1	SSE/244.3	-1.14	208
54	SCT	Halogen Software	495 March Rd Suite 500 Ottawa ON K2K 3G1	SSE/244.3	-1.14	209
54	CA	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON	SSE/244.3	-1.14	209
54	SCT	OneChip Photonics Inc.	495 March Rd Suite 200 Kanata ON K2K 3G1	SSE/244.3	-1.14	209
54	SCT	Halogen Software	495 March Rd Suite 500 Kanata ON K2K 3G1	SSE/244.3	-1.14	210
54	EHS		495 March Rd Ottawa ON K2K3G1	SSE/244.3	-1.14	210
54	ECA	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON K2K 3G1	SSE/244.3	-1.14	210
54	ECA	E-Cruiter.com Inc.	495 March Road Kanata ON K2K 3G1	SSE/244.3	-1.14	210

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
55	FSTH	964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	211
55	SPL		21777 SHELL GAS STATION 720 MARCH ROAD, KANATA, ON K2L 1A1<UNOFFICIAL> Ottawa ON K2L 1A1	WNW/247.1	-1.05	211
55	FSTH	964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	212
55	CA	Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON	WNW/247.1	-1.05	212
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	213
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	213
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	214
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	214
55	FST	2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	215
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	215
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	216
55	DTNK	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	216
55	SPL	Shell Station<UNOFFICIAL>	720 March Rd Ottawa ON	WNW/247.1	-1.05	216

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
55	ECA	Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON M2N 6Y2	WNW/247.1	-1.05	216
55	FST	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	216
55	FST		720 MARCH RD KANATA ON K2K 2R9	WNW/247.1	-1.05	217
55	FST	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	217
55	FST	SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	WNW/247.1	-1.05	218

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	95.8	21
	ON	189.5	39
	ON	216.8	48

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 30 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
MINTO DEVELOPMENTS INC.	LEGGET DR/TERRY FOX DR/SOLANDT KANATA CITY ON	12.8	5
TAYSHAM INVESTORS INC.	MARCH ROAD, TERRY FOX DR. KANATA CITY ON	23.7	6
KANATA RESEARCH PARK CORP.	TERRY FOX DR. MARCH RD. KANATA CITY ON	23.7	6
Nortel Networks Corporation	535 Legget Drive Ottawa ON	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON	60.0	10

Site	Address	Distance (m)	Map Key
MKB RESTAURANTS (CS) LIMITED	700 MARCH ROAD KANATA CITY ON K2K 2V9	90.9	19
Kanata Research Park Corporation	555 Legget Drive Ottawa ON	99.2	22
Kanata Research Park Corporation	515 Legget Drive Ottawa ON	107.7	24
2117547 Ontario Inc.	70 Hines Rd Ottawa ON	119.6	26
NEWBRIDGE NETWORKS CORP. - 8-4051-90	603 MARCH ROAD (8-4053-90) KANATA CITY ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORP. 8-4052-90	603 MARCH ROAD KANATA CITY ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORP. - 8-4053-90	603 MARCH ROAD (8-4051-90) KANATA CITY ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORP. - 8-4052-90	603 MARCH ROAD (8-4054-90) KANATA CITY ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	155.3	32
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	155.3	32

Site	Address	Distance (m)	Map Key
WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	173.5	36
Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON	202.7	45
NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7	207.8	46
	359 Terry Fox Drive Kanata ON K2K 2E7	207.8	46
Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON	207.8	46
Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON	207.8	46
COLONNADE DEVELOPMENT INC.	60 HINES RD., PH. 1, SWM KANATA ON K2K 2M5	217.9	50
COLONNADE DEVELOPMENT INC.	SWM-60 HINES RD.PH.2 KANATA ON K2K 2M5	217.9	50
LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	235.2	52
LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	235.2	52
	3001 Solandt Road Kanata ON K2K 2M8	235.2	52
	495 March Road Kanata ON K2K 3G1	244.3	54

Site	Address	Distance (m)	Map Key
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON	244.3	54
Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON	247.1	55

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated May 31, 2021 has found that there are 4 DTNK site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA ON K2K 2R9	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Nov 30, 2021 has found that there are 3 EASR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SCI BROCKVILLE CORP.	528 MARCH KANATA ON	81.4	16
SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	81.4	16

Site	Address	Distance (m)	Map Key
AVAYA CANADA CORP	425 LEGGET DRIVE OTTAWA ON K2K 2W2	209.2	47

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Dec 31, 2021 has found that there are 6 EBR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	155.3	32
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	155.3	32
Filtran Limited	360 Terry Fox Drive Ottawa CITY OF OTTAWA ON	202.7	45
Smart Technologies Inc.	359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	207.8	46
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON K2K 2M8	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	235.2	52

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Nov 30, 2021 has found that there are 25 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10

Site	Address	Distance (m)	Map Key
Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	60.0	10
Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	70.7	12
Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	81.0	15
Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	107.7	24
Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	119.0	25
2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	119.6	26
D.I.R. Investments Inc.	Ottawa ON K0A 1A0	141.1	30

Site	Address	Distance (m)	Map Key
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	155.3	32
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	155.3	32
Kanata Research Park Corporation	360 Terry Fox Drive Ottawa ON K2K 2X3	202.7	45
Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON K2K 2E7	207.8	46
Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON K2K 2X3	207.8	46
425 Legget Drive Property GP Inc.	425 Legget Dr Ottawa ON	209.2	47
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Road Kanata ON K2K 2M8	235.2	52
Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	235.2	52
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON K2K 3G1	244.3	54
E-Cruiter.com Inc.	495 March Road Kanata ON K2K 3G1	244.3	54

Site	Address	Distance (m)	Map Key
Shell Canada OP Inc. and Shell Canada Products Limited	720 March Road Ottawa ON M2N 6Y2	247.1	55

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 46 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	38.7	8
	535 Legget Drive Kanata ON K2K 3B8	60.0	10
	700 March Road Ottawa ON	69.7	11

Site	Address	Distance (m)	Map Key
	510-528 March Road Kanata ON	81.4	16
	528 March Road Ottawa ON	81.4	16
	591 March Road Kanata ON K2K 2M5	89.1	17
	591 March Rd Ottawa ON K2K2M5	89.1	17
	505 March Road Ottawa ON	89.5	18
	555 Legget Dr Ottawa ON K2K2X3	99.2	22
	555 Legget Dr Ottawa ON K2K2X3	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	555 Legget Drive Kanata ON K2K 3B8	99.2	22
	515 Legget Drive Ottawa ON	107.7	24

Site	Address	Distance (m)	Map Key
	515 Legget Dr Ottawa ON K2K3G4	107.7	24
	525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	119.0	25
	70 Hines Rd. Kanata ON K2K 2M5	119.6	26
	80 Hines Road n/a ON K2K 2T8	119.7	27
	555 March Road Ottawa (Kanata) ON	121.8	28
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Road Kanata ON K2K 2M5	135.6	29
	603 March Rd Kanata ON K2K 2M5	135.6	29
	595 March Road, Block E Kanata ON	165.4	33

Site	Address	Distance (m)	Map Key
	706, 710, and 714 March Road Ottawa ON K2K 2R9	196.1	42
	710 March Road Kanata ON K2K 2V9	199.2	43
	495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K	200.0	44
	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45
	359 Terry Fox Drive Ottawa ON	207.8	46
	359 Terry Fox Drive Ottawa ON	207.8	46
	425 Legget Dr Kanata ON K2K 2W2	209.2	47
	425 Legget Drive Ottawa ON	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47
	425 Legget Drive Kanata ON K2K 3C9	209.2	47

Site	Address	Distance (m)	Map Key
	370-450 Huntmar Drive Ottawa ON	219.5	51
	3001 Solandt Road Kanata ON	235.2	52
	495 March Rd Ottawa ON K2K3G1	244.3	54

FST - Fuel Storage Tank

A search of the FST database, dated May 31, 2021 has found that there are 8 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
2643320 ONTARIO INC.	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS INC	720 MARCH RD KANATA K2K 2R9 ON CA ON	247.1	55
	720 MARCH RD KANATA ON K2K 2R9	247.1	55

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	247.1	55
964299 ONTARIO INC O/A ROB'S SHELL	720 MARCH RD KANATA ON K2K 2R9	247.1	55

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 107 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2

Site	Address	Distance (m)	Map Key
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	0.0	2
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	0.0	2
Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	2.0	3
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	2.5	4
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7

Site	Address	Distance (m)	Map Key
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	27.8	7
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	81.0	15
MILLER'S QUALITY DRY CLEANERS	591 MARCH ROAD KANATA ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17

Site	Address	Distance (m)	Map Key
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	89.1	17
RAJANS PHARMACIES LTD.	700 MARCH ROAD KANATA ON K2K 2V9	90.9	19
Kanata North Medical Centre	700 March Rd Kanata ON K2K 2V9	90.9	19
TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	99.2	22
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	99.2	22
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
March Networks	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22

Site	Address	Distance (m)	Map Key
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
KRP Management Services Inc.	555 Legget Drive Ottawa ON	99.2	22
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	99.2	22
KRP Properties	40 Hines Road Ottawa ON K2K 2M5	106.7	23

Site	Address	Distance (m)	Map Key
AMCC	80 Hines Rd. Kanata ON K2K 2T8	119.7	27
TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
TRILLIUM TELEPHONE SYSTEMS INC.	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
TRILLIUM TELEPHONE SYSTEMS INC. 38-102	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
TRILLIUM TELEPHONE (OUT OF BUS)	603 MARCH ROAD KANATA ON K2K 2M5	135.6	29
NEWBRIDGE NETWORKS CORPORATION 28-807	603 MARCH ROAD C/O 600 MARCH RD., P. O.BOX 13600 KANATA ON K2K 2M5	135.6	29
Tundra Semiconductor Corporation	603 March Road Kanata ON K2K 2M5	135.6	29
Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	152.1	31
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	155.3	32
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	155.3	32
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	155.3	32
GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	155.3	32

Site	Address	Distance (m)	Map Key
Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	169.0	34
Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	169.0	34
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	169.0	34
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	169.0	34
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	169.0	34
Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	173.5	36
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	173.5	36
ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	173.5	36

Site	Address	Distance (m)	Map Key
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	173.5	36
Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	173.7	37
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	173.7	37
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	173.7	37
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON	202.7	45
Filtran Ltd	360 Terry Fox Dr. Kanata ON K2K 2P5	202.7	45
Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45
Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45
Artaflex Ottawa Inc.	360 Terry Fox Drive Kanata ON K2K 2P5	202.7	45

Site	Address	Distance (m)	Map Key
NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA ON K2K 2E7	207.8	46
NEWBRIDGE NETWORKS CORPORATION 28-523	359 TERRY FOX DRIVE KANATA ON K2K 2E7	207.8	46
Smart Technologies Inc	359 Terry Fox Drive - North Kanata ON	207.8	46
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	207.8	46
Public Health Agency of Canada - Kanata	359 Terry Fox Drive Kanata ON K2K2E7	207.8	46
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	207.8	46
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	207.8	46
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	207.8	46
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	207.8	46
SR TELECOM INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	209.2	47
C-MAC KANATA INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	209.2	47

Site	Address	Distance (m)	Map Key
C-MAC KANATA INC.	425 LEGETT DRIVE KANATA ON K2K 2W2	209.2	47
C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY	425 LEGETT DRIVE KANATA ON	209.2	47
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
MORGUARD INVESTMENTS LTD.	3001 SOLANDT STREET KANATA ON	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON	235.2	52
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	235.2	52
Morguard Investments	3001 Solandt Rd Kanata ON K2K 3M8	235.2	52

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	515 LEGGET DRIVE KANATA ON	107.7	24

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 3 NPRI site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	60.0	10
KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	99.2	22
KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	107.7	24

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 66 SCT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	0.0	1
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	0.0	1
Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	0.0	1

Site	Address	Distance (m)	Map Key
Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	0.0	1
Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	60.0	10
PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	60.0	10
Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	60.0	10
CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	78.4	14
Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	78.4	14
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	89.5	18
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	89.5	18
Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	89.5	18
Amika Mobile Corporation	700 March Rd Suite 203 Kanata ON K2K 2V9	90.9	19
NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	99.2	22
NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	99.2	22

Site	Address	Distance (m)	Map Key
March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	99.2	22
March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	99.2	22
March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	99.2	22
Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	99.2	22
Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	99.2	22
Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	99.2	22
Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	99.2	22
Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	99.2	22
Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	106.7	23
Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	107.7	24
Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	107.7	24

Site	Address	Distance (m)	Map Key
Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	107.7	24
ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	121.8	28
TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	121.8	28
Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	121.8	28
Localcity	555 March Rd Kanata ON K2K 2M5	121.8	28
Local City Inc.	555 March Rd Kanata ON K2K 2M5	121.8	28
ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	121.8	28
TUNDRA SEMICONDUCTORS CORPORAT	603 MARCH RD KANATA ON K2K 2M5	135.6	29
Tundra Semiconductor Corp	603 March Rd Kanata ON K2K 2M5	135.6	29
IDT Canada	603 March Rd Kanata ON K2K 2M5	135.6	29
WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	155.3	32
Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	155.3	32

Site	Address	Distance (m)	Map Key
OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	155.3	32
Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	155.3	32
EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	155.3	32
DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	155.3	32
TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	169.0	34
Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	169.0	34
INSTANTEL INC.	362 TERRY FOX DR KANATA ON K2K 2P5	169.3	35
Coyle Publishing Inc.	362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	169.3	35
Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	173.5	36
Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	173.5	36
Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	173.5	36

Site	Address	Distance (m)	Map Key
Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	173.5	36
VOLEX CAPULUM INC.	360 TERRY FOX DR KANATA ON K2K 2P5	202.7	45
VOLEX CANADA INC.	360 Terry Fox Dr Kanata ON K2K 2P5	202.7	45
Sciemetric Instruments Inc	360 Terry Fox Dr Kanata ON K2K 2P5	202.7	45
Filtran Limited	360 Terry Fox Dr Kanata ON K2K 2P5	202.7	45
Emcon Emanation Control Ltd.	360 Terry Fox Dr Nepean ON K2E	202.7	45
ELCOMBE SYSTEMS LIMITED	359 TERRY FOX DR KANATA ON K2K 2E7	207.8	46
Sciemetric Instruments Inc.	359 Terry Fox Dr Kanata ON K2K 2E7	207.8	46
Pleora Technologies Inc.	359 Terry Fox Dr Unit 230 Kanata ON K2K 2E7	207.8	46
SR TELECOM	425 LEGGET DR KANATA ON K2K 2W2	209.2	47
Solectron EMS Canada	425 Legget Dr Kanata ON K2K 2W2	209.2	47
LOCKHEED MARTIN CANADA INC	3001 SOLANDT RD KANATA ON K2K 2M8	235.2	52

Site	Address	Distance (m)	Map Key
Lockheed Martin Canada Inc.	3001 Solandt Rd Kanata ON K2K 2M8	235.2	52
Dinmar Consulting Inc.	495 March Rd Suite 400 Kanata ON K2K 3G1	244.3	54
Halogen Software	495 March Rd Suite 500 Ottawa ON K2K 3G1	244.3	54
OneChip Photonics Inc.	495 March Rd Suite 200 Kanata ON K2K 3G1	244.3	54
Halogen Software	495 March Rd Suite 500 Kanata ON K2K 3G1	244.3	54

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020 has found that there are 6 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	Terry Fox and March Rd Ottawa ON	23.7	6
Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	89.5	18
Kanata Research Park Corporation	515 Legget drive Ottawa ON	107.7	24
Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	119.6	26

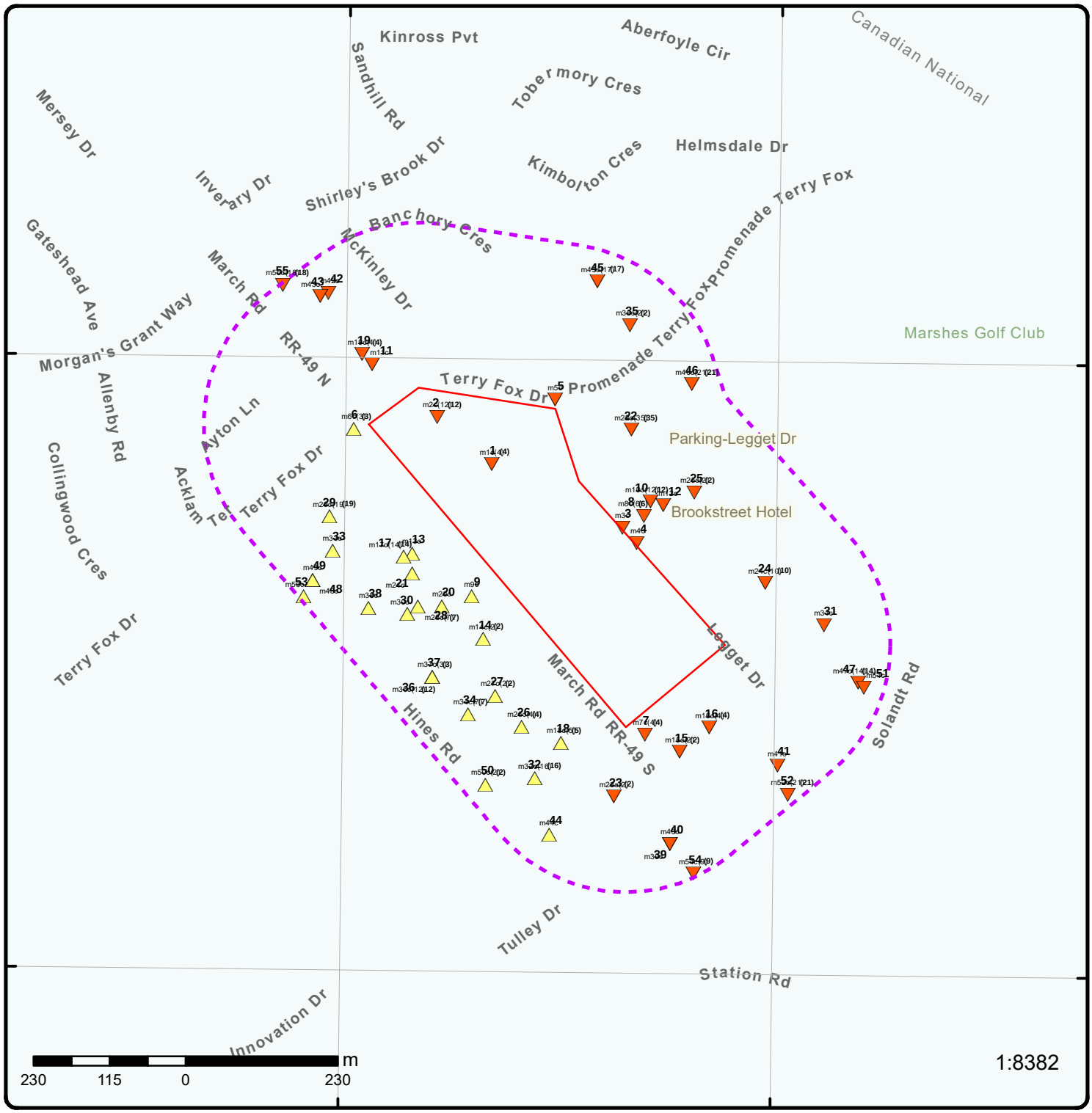
Site	Address	Distance (m)	Map Key
	21777 SHELL GAS STATION 720 MARCH ROAD, KANATA, ON K2L 1A1<UNOFFICIAL> Ottawa ON K2L 1A1	247.1	55
Shell Station<UNOFFICIAL>	720 March Rd Ottawa ON	247.1	55

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 9 con 3 ON ***Well ID:*** 1503345	49.9	9
	lot 9 con 3 ON ***Well ID:*** 1510215	76.5	13
	lot 9 con 3 ON ***Well ID:*** 1503344	93.9	20
	591 MARCH ROAD lot 9 con 3 KANATA ON ***Well ID:*** 7151742	179.6	38
	lot 8 con 3 ON ***Well ID:*** 1503343	189.6	40
	3001 SOLANDT RD. KANATA ON ***Well ID:*** 7296271	191.0	41
	lot 9 con 3 ON ***Well ID:*** 1503346	216.8	49
	O HINES DRIVE KANATA ON	243.3	53

Site	Address	Distance (m)	Map Key
	Well ID: 7218163		



Map: 0.25 Kilometer Radius

Order Number: 22010600440

Address: 600 March Road, Kanata, ON

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

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

75°55'30"W

45°21'N



45°21'N

Aerial

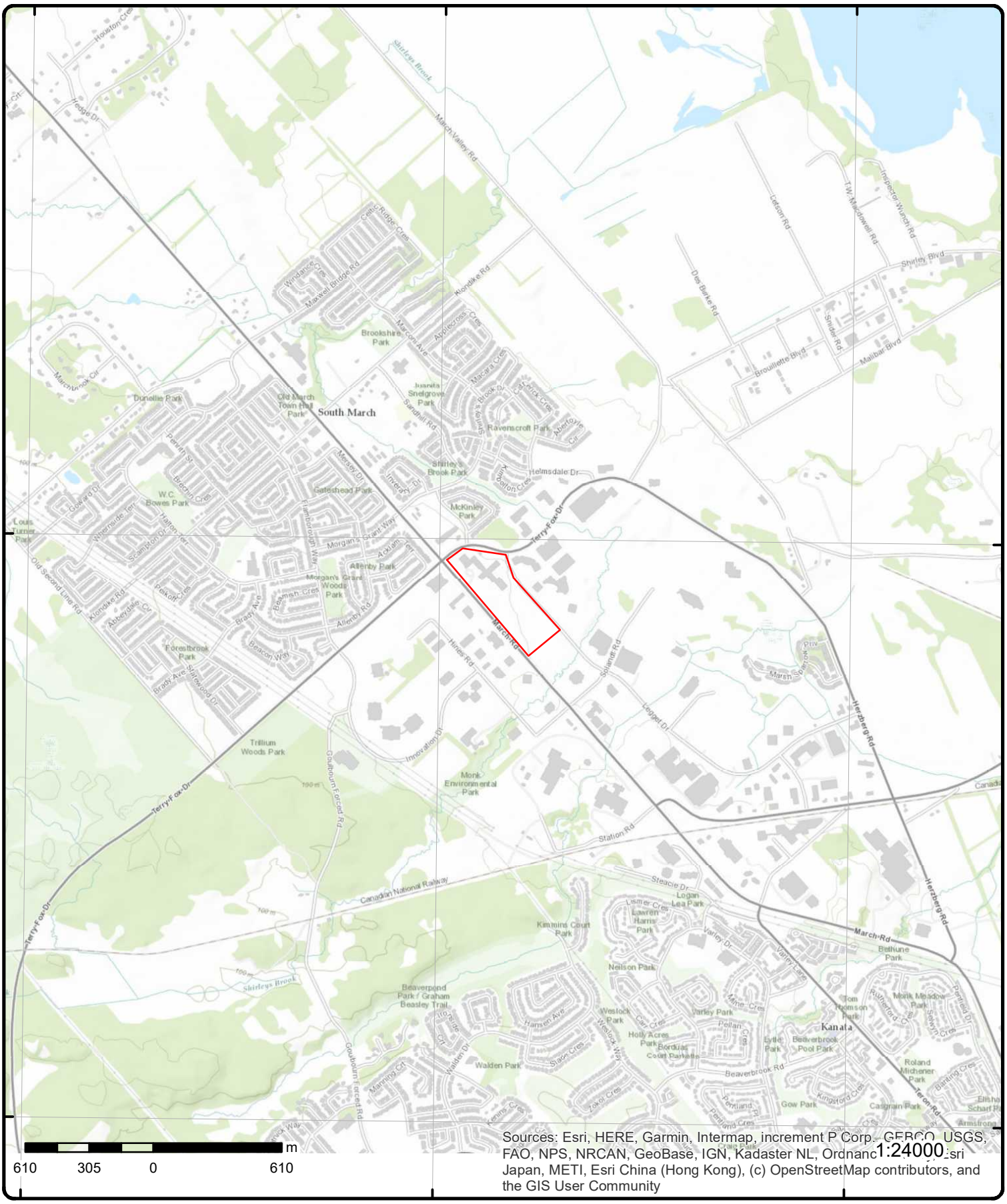
Year: 2020

Order Number: 22010600440

Address: 600 March Road, Kanata, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 600 March Road, ON

Source: ESRI World Topographic Map

Order Number: 22010600440

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 4	NW/0.0	81.9 / -0.02	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2E6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 3000

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 4	NW/0.0	81.9 / -0.02	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 1800

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 4	NW/0.0	81.9 / -0.02	Alcatel Canada Inc. 600 March Rd Kanata ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 000

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	4 of 4	NW/0.0	81.9 / -0.02	Alcatel-Lucent Canada Inc. 600 March Rd Kanata ON K2K 2T6	SCT

Established: 01-JUN-86
Plant Size (ft²): 95000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 12	NW/0.0	81.9 / -0.05	ALCATEL CANADA INC. 600 MARCH ROAD KANATA ON K2K 2E6	GEN

Generator No: ON0044812
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 12	NW/0.0	81.9 / -0.05	ALCATEL CANADA INC. 600 March Road Kanata ON K2K 2T6	GEN

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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2 **3 of 12** **NW/0.0** **81.9 / -0.05** **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2T6 **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2010
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

---

2 **4 of 12** **NW/0.0** **81.9 / -0.05** **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2T6 **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

---

2 **5 of 12** **NW/0.0** **81.9 / -0.05** **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2T6 **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2012
PO Box No:
Country:

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

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

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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2 ***6 of 12*** ***NW/0.0*** ***81.9 / -0.05*** ***ALCATEL CANADA INC.*** ***GEN***
600 March Road
Kanata ON

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

---

2 ***7 of 12*** ***NW/0.0*** ***81.9 / -0.05*** ***NOKIA CANADA*** ***GEN***
600 March Road
Kanata ON K2K 2E6

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL

Approval Years:	2016	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS

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2 ***8 of 12*** ***NW/0.0*** ***81.9 / -0.05*** ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2E6 ***GEN***

Generator No:	ON0044812	**Status:**	
SIC Code:	513390	**Co Admin:**	
SIC Description:	OTHER TELECOMMUNICATIONS	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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2 | ***9 of 12*** | ***NW/0.0*** | ***81.9 / -0.05*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2E6 | ***GEN***

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2014
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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2 | **10 of 12** | **NW/0.0** | **81.9 / -0.05** | **NOKIA CANADA**
600 March Road
Kanata ON K2K 2E6 | **GEN**

Generator No: ON0044812
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

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

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

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	11 of 12	NW/0.0	81.9 / -0.05	NOKIA CANADA 600 March Road Kanata ON K2K 2E6	GEN

Generator No:	ON0044812	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jul 2020	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	242 A
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	146 R
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	112 C
Waste Class Desc:	Acid solutions - containing heavy metals
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	121 C
Waste Class Desc:	Alkaline slutions - containing heavy metals
Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	148 B
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	12 of 12	NW/0.0	81.9 / -0.05	NOKIA CANADA 600 March Road Kanata ON K2K 2E6	GEN

Generator No:	ON0044812	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jan 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	146 R
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates
Waste Class:	112 C
Waste Class Desc:	Acid solutions - containing heavy metals
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	148 B
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	242 A
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	121 C
Waste Class Desc:	Alkaline slutions - containing heavy metals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	E/2.0	79.8 / -2.14	**Intel of Canada, Ltd.** **535 Legget Drive Suite 206** **Kanata ON K2K 3B8**	GEN

Generator No:	ON6268256	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Nov 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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4 | ***1 of 1*** | ***E/2.5*** | ***79.9 / -2.05*** | ***La Vie Medial Inc.***
525 Legget Dr. Suite 150
Kanata ON K2K2W2 | ***GEN***

Generator No: ON8874529
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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5 | ***1 of 1*** | ***N/12.8*** | ***79.9 / -1.99*** | ***MINTO DEVELOPMENTS INC.***
LEGGET DR/TERRY FOX DR/SOLANDT
KANATA CITY ON | ***CA***

Certificate #: 3-0976-95-
Application Year: 95
Issue Date: 7/20/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

6 | ***1 of 3*** | ***WNW/23.7*** | ***83.0 / 1.03*** | ***KANATA RESEARCH PARK CORP.***
TERRY FOX DR. MARCH RD.
KANATA CITY ON | ***CA***

Certificate #: 3-1115-87-
Application Year: 87
Issue Date: 7/13/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:

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

Contaminants:
Emission Control:

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6 | ***2 of 3*** | ***WNW/23.7*** | ***83.0 / 1.03*** | ***TAYSHAM INVESTORS INC.***
MARCH ROAD, TERRY FOX DR.
KANATA CITY ON | ***CA***

Certificate #: 7-1085-88-
Application Year: 88
Issue Date: 7/18/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

6 | ***3 of 3*** | ***WNW/23.7*** | ***83.0 / 1.03*** | ***Terry Fox and March Rd***
Ottawa ON | ***SPL***

Ref No: 2401-88VMDH
Site No:
Incident Dt:
Year:
Incident Cause:
Incident Event:
Contaminant Code: 15
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/1/2010
Dt Document Closed:
Incident Reason:
Site Name: Terry Fox Extension<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: 30 L's of Engine Oil to Terry Fox Rd Extension - Kanata.
Contaminant Qty: 30 L

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

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7 | ***1 of 4*** | ***SE/27.8*** | ***80.9 / -1.05*** | ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 | ***GEN***

Generator No: ON5466737
SIC Code: 334410
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING
Approval Years: 2016
PO Box No:

Status:
Co Admin: Emma Mason
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-886-6192 Ext.
Contam. Facility: No

Country: Canada ***MHSW Facility:*** No

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

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

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

---

7 ***2 of 4*** ***SE/27.8*** ***80.9 / -1.05*** ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 ***GEN***

Generator No: ON5466737 ***Status:***
SIC Code: 334410 ***Co Admin:*** Jessica Major
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING ***Choice of Contact:*** CO_OFFICIAL
Approval Years: 2015 ***Phone No Admin:*** 613-886-6328 Ext.
PO Box No: ***Contam. Facility:*** No
Country: Canada ***MHSW Facility:*** No

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

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

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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7 | **3 of 4** | **SE/27.8** | **80.9 / -1.05** | **Sanmina Corporation**
500 March Road
Ottawa ON K2K 0J9 | **GEN**

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

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

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 262 T
Waste Class Desc: Detergents and soaps

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

---

7 | **4 of 4** | **SE/27.8** | **80.9 / -1.05** | **Sanmina Corporation**
500 March Road
Ottawa ON K2K 0J9 | **GEN**

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

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

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 262 T
Waste Class Desc: Detergents and soaps

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

---

8 | **1 of 6** | **ENE/38.7** | **79.9 / -1.99** | **535 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20200513064
Status: C
Report Type: Standard Report
Report Date: 19-MAY-20
Date Received: 13-MAY-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9192125
Y: 45.3478896

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8 | **2 of 6** | **ENE/38.7** | **79.9 / -1.99** | **535 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20200513064
Status: C

Nearest Intersection:
Municipality:

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

Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	3 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	4 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	5 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	6 of 6	ENE/38.7	79.9 / -1.99	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-MAY-20	**Search Radius (km):**	.25
Date Received:	13-MAY-20	**X:**	-75.9192125
Previous Site Name:		**Y:**	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1	WSW/49.9	83.8 / 1.92	lot 9 con 3 ON	WWIS

Well ID:	1503345	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	12/1/1952
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	009
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503345.pdf

Additional Detail(s) (Map)

Well Completed Date:	1952/11/20
Year Completed:	1952
Depth (m):	12.192
Latitude:	45.3467679412808
Longitude:	-75.9225283767252
Path:	150\1503345.pdf

Bore Hole Information

Bore Hole ID:	10025388	***Elevation:***	80.863845
DP2BR:	5.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	427730.60
Code OB Desc:	Bedrock	***North83:***	5021887.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	20-Nov-1952 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996631
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996630
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503345
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573958
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043529
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043528
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 9
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

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

Results of Well Yield Testing

Pump Test ID:	991503345
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456239
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	38.0
Water Found Depth UOM:	ft

10	***1 of 12***	***ENE/60.0***	***78.1 / -3.86***	***535 Legget Drive Kanata ON K2K 3B8***	***EHS***

Order No:	20100311004	***Nearest Intersection:***	Legget Drive and Terry Fox Drive
Status:	C	***Municipality:***	Kanata
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	3/19/2010	***Search Radius (km):***	0.25
Date Received:	3/11/2010	***X:***	-75.919057
Previous Site Name:		***Y:***	45.347895
Lot/Building Size:			
Additional Info Ordered:	City Directory		

10	***2 of 12***	***ENE/60.0***	***78.1 / -3.86***	***Nortel Networks Corporation 535 Legget Drive Ottawa ON***	***CA***

Certificate #:	4854-5GZU2U
Application Year:	2002
Issue Date:	12/20/2002
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

10	***3 of 12***	***ENE/60.0***	***78.1 / -3.86***	***Kanata Research Park Corporation 535 Legget Drive***	***CA***

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

Certificate #: 5182-5M9TGN
Application Year: 2003
Issue Date: 5/8/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

10	4 of 12	ENE/60.0	78.1 / -3.86	**Mead Johnson Nutritionals** **535 Legget Dr Unit 900** **Kanata ON K2K 3B8**	SCT

Established: 01-AUG-07
Plant Size (ft²):
Employment:

--Details--
Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

Description: Toiletries, Cosmetics and Sundries Wholesaler-Distributors
SIC/NAICS Code: 414520

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

10	5 of 12	ENE/60.0	78.1 / -3.86	**PIKA Technologies Inc.** **535 Legget Dr Suite 400** **Kanata ON K2K 3B8**	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

10	6 of 12	ENE/60.0	78.1 / -3.86	**Solace Systems Inc.** **535 Legget Dr Floor 3** **Kanata ON K2K 3B8**	SCT

Established:
Plant Size (ft²):

Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors
SIC/NAICS Code: 417310

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10 | ***7 of 12*** | ***ENE/60.0*** | ***78.1 / -3.86*** | ***KANATA RESEARCH PARK***
535 LEGGET Drive
KANATA ON K2K3B8 | ***NPRI***

NPRI ID:	8800000227	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWER C	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	65	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10024-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrous oxide
Air:	
Water:	
Land:	
Total Releases:	

Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns

Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

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10 | ***8 of 12*** | ***ENE/60.0*** | ***78.1 / -3.86*** | ***Kanata Research Park Corporation***
535 Legget Drive
Ottawa ON K2K 2X3 | ***ECA***

Approval No: 8125-4MTJ36
Approval Date: 2001-03-29
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8015-4UUK67-14.pdf
PDF Site Location:

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10 | ***9 of 12*** | ***ENE/60.0*** | ***78.1 / -3.86*** | ***Nortel Networks Corporation***
535 Legget Drive
Ottawa ON K2H 8E9 | ***ECA***

Approval No: 4854-5GZU2U
Approval Date: 2002-12-20
Status: Approved
Record Type: ECA
Link Source: IDS
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:

SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Nortel Networks Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0863-5DAQUM-14.pdf
PDF Site Location:

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10 **10 of 12** **ENE/60.0** **78.1 / -3.86** **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 **ECA**

Approval No: 5816-5ALKNH **MOE District:** Ottawa
Approval Date: 2002-05-30 **City:**
Status: Approved **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8364-59NNET-14.pdf
PDF Site Location:

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10 **11 of 12** **ENE/60.0** **78.1 / -3.86** **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 **ECA**

Approval No: 8125-4MTJ36 **MOE District:** Ottawa
Approval Date: 2001-02-06 **City:**
Status: Revoked and/or Replaced **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5568-4R5PGT-14.pdf
PDF Site Location:

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10 **12 of 12** **ENE/60.0** **78.1 / -3.86** **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 **ECA**

Approval No: 5182-5M9TGN **MOE District:** Ottawa
Approval Date: 2003-05-08 **City:**
Status: Approved **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2856-5DMHSA-14.pdf
PDF Site Location:

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11 | **1 of 1** | **NW/69.7** | **81.1 / -0.81** | **700 March Road Ottawa ON** | **EHS**

Order No:	20080220030	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	2/29/2008	**Search Radius (km):**	0.25
Date Received:	2/20/2008	**X:**	-75.924499
Previous Site Name:		**Y:**	45.349902
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans		

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12 | **1 of 1** | **ENE/70.7** | **79.3 / -2.67** | **Kanata Research Park Corporation Kanata Research Park Kanata ON K2K 2X3** | **ECA**

Approval No:	8125-4MTJ36	**MOE District:**	Ottawa
Approval Date:	2002-05-30	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.918846
Record Type:	ECA	**Latitude:**	45.348034
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Kanata Research Park Corporation		
Address:	Kanata Research Park		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6185-4MFKX7-14.pdf		
PDF Site Location:			

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13 | **1 of 1** | **W/76.5** | **84.1 / 2.20** | **lot 9 con 3 ON** | **WWIS**

Well ID:	1510215	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Industrial	**Date Received:**	10/23/1969
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3504
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510215.pdf

Additional Detail(s) (Map)

Well Completed Date:	1969/10/01
Year Completed:	1969
Depth (m):	21.6408
Latitude:	45.347343670196
Longitude:	-75.9236866038524
Path:	151\1510215.pdf

Bore Hole Information

Bore Hole ID:	10032243	***Elevation:***	80.093772
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	o	***East83:***	427640.60
Code OB Desc:	Overburden	***North83:***	5021952.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	01-Oct-1969 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931014235
Layer:	2
Color:	1
General Color:	WHITE
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4.0
Formation End Depth:	71.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014234
Layer:	1
Color:	
General Color:	
Mat1:	25
Most Common Material:	OVERBURDEN
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 961510215
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10580813
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057084
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 71
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057083
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991510215
Pump Set At:
Static Level: 29.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 60.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 7.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934379016
Test Type: Recovery
Test Duration: 30
Test Level: 29.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934096838
Test Type: Recovery
Test Duration: 15
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934640036
Test Type: Recovery
Test Duration: 45
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934896956
Test Type: Recovery
Test Duration: 60
Test Level: 29.0
Test Level UOM: ft

Water Details

Water ID: 933465174
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

Water Details

Water ID: 933465173
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 62.0
Water Found Depth UOM: ft

14	*1 of 2*	*SW/78.4*	*83.8 / 1.86*	***CAPRICORN DATA*** ***525 MARCH RD RR 33*** ***KANATA ON K2K 2M5***	***SCT***

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: CARBON PAPER AND INKED RIBBONS
SIC/NAICS Code: 3955

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	2 of 2	SW/78.4	83.8 / 1.86	Capricorn Data Inc. 525 March Rd Kanata ON K2K 2M5	SCT

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	1 of 2	SE/81.0	80.2 / -1.74	Legget Drive Development Inc. 500 March Rd Ottawa ON K1P 6E2	ECA

Approval No: 0623-9SKM34
Approval Date: 2015-01-13
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Legget Drive Development Inc.
Address: 500 March Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7712-9RMMU6-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	2 of 2	SE/81.0	80.2 / -1.74	Sanmina Corporation 500 March Road Ottawa ON K2K 0J9	GEN

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 263 C
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Desc: Polymeric resins

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

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 253 L
Waste Class Desc: Emulsified oils

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 262 T
Waste Class Desc: Detergents and soaps

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16 | **1 of 4** | **SE/81.4** | **79.9 / -2.05** | **510-528 March Road Kanata ON** | **EHS**

Order No: 20061012005
Status: C
Report Type: Custom Report
Report Date: 10/20/2006
Date Received: 10/12/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.917957
Y: 45.344121

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16 | **2 of 4** | **SE/81.4** | **79.9 / -2.05** | **528 March Road Ottawa ON** | **EHS**

Order No: 20140416041
Status: C
Report Type: Custom Report
Report Date: 22-APR-14
Date Received: 16-APR-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.917765
Y: 45.344926

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

16 *3 of 4* *SE/81.4* *79.9 / -2.05* **SCI BROCKVILLE CORP.** **528 MARCH KANATA** **ON** **EASR**

Approval No:	R-002-4521547225	**SWP Area Name:**	
Status:	Registered	**MOE District:**	
Date:	8/25/15	**Municipality:**	KANATA
Record Type:		**Latitude:**	
Link Source:		**Longitude:**	
Project Type:	Standby Power System	**Geometry X:**	
Full Address:		**Geometry Y:**	
Approval Type:			
Full PDF Link:			
PDF URL:			
PDF Site Location:			

16 *4 of 4* *SE/81.4* *79.9 / -2.05* **SCI BROCKVILLE CORP.** **528 MARCH RD** **KANATA ON K2K 2M5** **EASR**

Approval No:	R-002-4521547225	**SWP Area Name:**	
Status:	REGISTERED	**MOE District:**	
Date:	2015-08-25	**Municipality:**	KANATA
Record Type:	EASR	**Latitude:**	
Link Source:	MOFA	**Longitude:**	
Project Type:	Standby Power System	**Geometry X:**	
Full Address:		**Geometry Y:**	
Approval Type:	EASR-Standby Power System		
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2016294		
PDF URL:			
PDF Site Location:			

17 *1 of 14* *W/89.1* *84.1 / 2.20* **MILLER'S QUALITY DRY CLEANERS** **591 MARCH ROAD** **KANATA ON K2K 2M5** **GEN**

Generator No:	ON2095500	**Status:**	
SIC Code:	9721	**Co Admin:**	
SIC Description:	POWER LAUND./CLEANERS	**Choice of Contact:**	
Approval Years:	95,96,97,98,99,00,01	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

17 *2 of 14* *W/89.1* *84.1 / 2.20* **591 March Road** **Kanata ON K2K 2M5** **EHS**

Order No:	20061017022	**Nearest Intersection:**	
Status:	C	**Municipality:**	Kanata (Ottawa)
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	10/19/2006	**Search Radius (km):**	0.25
Date Received:	10/17/2006	**X:**	-75.923715
Previous Site Name:		**Y:**	45.347553
Lot/Building Size:	STRIP PLAZA		

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

Additional Info Ordered:

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17 ***3 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	
SIC Description:	Veterinary Services	***Choice of Contact:***	
Approval Years:	2009	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

17 ***4 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	
SIC Description:	Veterinary Services	***Choice of Contact:***	
Approval Years:	2010	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES
Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES

---

17 ***5 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	
SIC Description:	Veterinary Services	***Choice of Contact:***	
Approval Years:	2011	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	312

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

Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

17 | 6 of 14 | W/89.1 | 84.1 / 2.20 | **March Veterinary Professional Corporation**
591 March Road
Kanata ON K2K 2M5 | GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

---

17 | 7 of 14 | W/89.1 | 84.1 / 2.20 | **March Veterinary Professional Corporation**
591 March Road
Kanata ON | GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

17 | 8 of 14 | W/89.1 | 84.1 / 2.20 | **591 March Rd**
Ottawa ON K2K2M5 | EHS

Order No: 20151123050
Status: C
Report Type: Standard Select Report
Report Date: 27-NOV-15
Date Received: 23-NOV-15
Previous Site Name:
Lot/Building Size: 1.25 hectares (approx.)

Nearest Intersection:
Municipality: City of Ottawa
Client Prov/State: ON
Search Radius (km): .25
X: -75.923843
Y: 45.347298

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

Additional Info Ordered:

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17 ***9 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	Tobie Jaros
SIC Description:	VETERINARY SERVICES	***Choice of Contact:***	CO_ADMIN
Approval Years:	2016	***Phone No Admin:***	613-591-2408 Ext.
PO Box No:		***Contam. Facility:***	No
Country:	Canada	***MHSW Facility:***	No

Detail(s)

Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

17 ***10 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	Tobie Jaros
SIC Description:	VETERINARY SERVICES	***Choice of Contact:***	CO_ADMIN
Approval Years:	2015	***Phone No Admin:***	613-591-2408 Ext.
PO Box No:		***Contam. Facility:***	No
Country:	Canada	***MHSW Facility:***	No

Detail(s)

Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

17 ***11 of 14*** ***W/89.1*** ***84.1 / 2.20*** ***March Veterinary Professional Corporation*** ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No:	ON3396254	***Status:***	
SIC Code:	541940	***Co Admin:***	Courtney C Cavanagh
SIC Description:	VETERINARY SERVICES	***Choice of Contact:***	CO_ADMIN
Approval Years:	2014	***Phone No Admin:***	613-591-2408 Ext.
PO Box No:		***Contam. Facility:***	No
Country:	Canada	***MHSW Facility:***	No

Detail(s)

Waste Class:	261

Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

17 | ***12 of 14*** | ***W/89.1*** | ***84.1 / 2.20*** | ***March Veterinary Professional Corporation*** | ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 264 T
Waste Class Desc: Photoprocessing wastes

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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17 | ***13 of 14*** | ***W/89.1*** | ***84.1 / 2.20*** | ***March Veterinary Professional Corporation*** | ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 264 T
Waste Class Desc: Photoprocessing wastes

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

---

17 | ***14 of 14*** | ***W/89.1*** | ***84.1 / 2.20*** | ***March Veterinary Professional Corporation*** | ***GEN***
591 March Road
Kanata ON K2K 2M5

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

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

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 264 T
Waste Class Desc: Photoprocessing wastes

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

18 ***1 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Texas Instruments Canada Ltd.***
505 March Rd Suite 200
Ottawa ON K2K 3A4 ***SCT***

Established: 1962
Plant Size (ft²):
Employment: 21

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

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18 ***2 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***505 March Road***
Ottawa ON ***EHS***

Order No: 20050314003w
Status: C
Report Type:
Report Date: 3/14/2005 10:08:25 AM
Date Received: 3/14/2005 10:08:25 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: MA
Search Radius (km): 0.25
X: 0
Y: 0

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18 ***3 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Texas Instruments Canada Ltd.***
505 March Rd Suite 200
Kanata ON K2K 3A4 ***SCT***

Established: 01-AUG-62
Plant Size (ft²):
Employment:

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

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18 ***4 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Telus Health Solutions Inc.***
505 March Rd Suite 450
Kanata ON K2K 3A4 ***SCT***

Established:
Plant Size (ft²):
Employment:

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

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

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18 ***5 of 5*** ***S/89.5*** ***82.9 / 0.95*** ***Colonnade Management<UNOFFICIAL>*** ***SPL***
505 March Road
Ottawa ON K2K 3A4

Ref No:	7635-8J2NEM	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/19/2011	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge or Emission to Air	***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:	38	***Nearest Watercourse:***	
Contaminant Name:	REFRIGERANT GAS, N.O.S.	***Site Address:***	505 March Road
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:	Sewage - Municipal/Private and Commercial	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/21/2011	***Site Map Datum:***	
Dt Document Closed:	12/3/2011	***SAC Action Class:***	Air Spills - Gases and Vapours
Incident Reason:		***Source Type:***	

Site Name: circuit #2<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Kanata North Tech Park: 90 lbs R407C to atm
Contaminant Qty: 41 kg

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19 ***1 of 4*** ***NW/90.9*** ***80.9 / -1.05*** ***MKB RESTAURANTS (CS) LIMITED*** ***CA***
700 MARCH ROAD
KANATA CITY ON K2K 2V9

Certificate #: 8-4213-94-
Application Year: 94
Issue Date: 12/16/1994
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: KITCHEN EXH. HOOD FOR BURGER KING REST.
Contaminants: Odour/Fumes
Emission Control: No Controls

---

19 ***2 of 4*** ***NW/90.9*** ***80.9 / -1.05*** ***RAJANS PHARMACIES LTD.*** ***GEN***
700 MARCH ROAD
KANATA ON K2K 2V9

Generator No:	ON2560500	***Status:***	

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

SIC Code:	6031	**Co Admin:**	
SIC Description:	PHARMACIES	**Choice of Contact:**	
Approval Years:	00,01	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	261
Waste Class Desc:	PHARMACEUTICALS
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

---

19 | ***3 of 4*** | ***NW/90.9*** | ***80.9 / -1.05*** | ***Amika Mobile Corporation***
700 March Rd Suite 203
Kanata ON K2K 2V9 | ***SCT***

Established:	01-AUG-07
Plant Size (ft²):	
Employment:	

--Details--

Description:	Computer Systems Design and Related Services
SIC/NAICS Code:	541510
Description:	Software Publishers
SIC/NAICS Code:	511210
Description:	Computer Systems Design and Related Services
SIC/NAICS Code:	541510

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19 | ***4 of 4*** | ***NW/90.9*** | ***80.9 / -1.05*** | ***Kanata North Medical Centre***
700 March Rd
Kanata ON K2K 2V9 | ***GEN***

Generator No:	ON4413511	**Status:**	
SIC Code:	621110	**Co Admin:**	
SIC Description:	Offices of Physicians	**Choice of Contact:**	
Approval Years:	2010	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES

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20 | ***1 of 1*** | ***WSW/93.9*** | ***84.9 / 2.95*** | ***lot 9 con 3***
ON | ***WWIS***

Well ID:	1503344	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/6/1964
Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	

Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	009
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503344.pdf

Additional Detail(s) (Map)

Well Completed Date:	1964/05/28
Year Completed:	1964
Depth (m):	17.0688
Latitude:	45.3466282973595
Longitude:	-75.923100538294
Path:	150\1503344.pdf

Bore Hole Information

Bore Hole ID:	10025387	**Elevation:**	80.732414
DP2BR:	2.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	427685.60
Code OB Desc:	Bedrock	**North83:**	5021872.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	28-May-1964 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996629
Layer:	2
Color:	
General Color:	
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 930996628

Layer: 1
Color:
General Color:
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503344
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573957
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043526
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043527
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 56
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503344
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 12.0
Recommended Pump Depth: 40.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0

Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456238
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55.0
Water Found Depth UOM:	ft

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21 | ***1 of 1*** | ***W/95.8*** | ***84.9 / 2.99*** | ***ON*** | ***BORE***

Borehole ID:	609785	**Inclin FLG:**	No
OGF ID:	215511400	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.347075
Total Depth m:	-999	**Longitude DD:**	-75.923682
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	427641
Drill Method:		**Northing:**	5021922
Orig Ground Elev m:	80.8	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	80.4		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384079	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT.		

Geology Stratum ID:	218384080	**Mat Consistency:**	
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Black	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Granite	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: BEDROCK,GRANITE. . GRANITE. GREY. GRANITE. BLACK. 003050. BEDROCK. SEISMIC VELOCITY =
**Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 022930 NTS_Sheet: 31G05D
Confiden 1: Reliable information but incomplete.
Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

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

22	1 of 35	NE/99.2	79.9 / -1.99	**NOKIA IP TELEPHONY CORPORATION** **555 LEGGET DR SUITE 400** **KANATA ON K2K 2X3**	SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

22	2 of 35	NE/99.2	79.9 / -1.99	**NOKIA** **555 Legget Dr Suite 400** **Kanata ON K2K 2X3**	SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Other Leather and Allied Product Manufacturing
SIC/NAICS Code: 316990

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Battery Manufacturing
SIC/NAICS Code: 335910

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Description: Software Publishers
SIC/NAICS Code: 511210

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22 | 3 of 35 | NE/99.2 | 79.9 / -1.99 | **March Networks**
555 Legget Dr Suite 140
Kanata ON K2K 2X3 | SCT

Established: 1991
Plant Size (ft²):
Employment: 55

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

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22 | 4 of 35 | NE/99.2 | 79.9 / -1.99 | **TELEXIS CORPORATION**
555 LEGGET DRIVE, SUITE 210
KANATA ON K2K 2X3 | GEN

Generator No: ON2343800
SIC Code: 3352
SIC Description: ELECT. PARTS & COMP.
Approval Years: 97,98,99,00,01
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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22 **5 of 35** **NE/99.2** **79.9 / -1.99**

PULSE CANADA LTD.
555 LEGGET DRIVE SUITE 1036
KANATA ON K2K 2X3

GEN

Generator No: ON2399800
SIC Code: 4839
SIC Description: OTHER TELECOMMUN.
Approval Years: 98,99,00,01
PO Box No:
Country:

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

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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22 **6 of 35** **NE/99.2** **79.9 / -1.99**

PULSE CANADA LTD.
555 LEGGET DRIVE SUITE 1036 TWR B
KANATA ON K2K 2X3

GEN

Generator No: ON2399800
SIC Code:
SIC Description:
Approval Years: 02,03,04
PO Box No:
Country:

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

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22 **7 of 35** **NE/99.2** **79.9 / -1.99**

March Networks Corporation
555 Legget Dr
Ottawa ON K2K 2X3

SCT

Established: 1991
Plant Size (ft²):
Employment: 90

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

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22 **8 of 35** **NE/99.2** **79.9 / -1.99**

March Networks Corporation
555 Legget Dr Suite 530
Kanata ON K2K 2X3

SCT

Established: 1991
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	9 of 35	NE/99.2	79.9 / -1.99	KRP Management Services Inc. 555 Legget Drive Ottawa ON	GEN

Generator No: ON4875456
SIC Code: 561420 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-
Approval Years: 06,07,08
PO Box No:
Country:

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

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 114
Waste Class Desc: OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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

Waste Class: 243
Waste Class Desc: PCB'S

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	10 of 35	NE/99.2	79.9 / -1.99	Redirack Storage Systems 555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	SCT

Established:

Plant Size (ft²):
Employment:

--Details--

Description:	Material Handling Equipment Manufacturing
SIC/NAICS Code:	333920
Description:	All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code:	332999
Description:	Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code:	332329
Description:	Hardware Manufacturing
SIC/NAICS Code:	332510
Description:	Hardware Wholesaler-Distributors
SIC/NAICS Code:	416330
Description:	Metal Service Centres
SIC/NAICS Code:	416210
Description:	Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code:	337215
Description:	Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code:	417910
Description:	Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417230
Description:	Lumber, Plywood and Millwork Wholesaler-Distributors
SIC/NAICS Code:	416320
Description:	Material Handling Equipment Manufacturing
SIC/NAICS Code:	333920
Description:	Wood Container and Pallet Manufacturing
SIC/NAICS Code:	321920
Description:	Other Metal Container Manufacturing
SIC/NAICS Code:	332439

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	11 of 35	NE/99.2	79.9 / -1.99	***March Networks*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	***GEN***

Generator No:	ON6420281	***Status:***	
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	07,08	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
22	12 of 35	NE/99.2	79.9 / -1.99	**Kanata Research Park Corporation** **555 Legget Drive** **Ottawa ON**	CA
Certificate #:		4220-5HUVP4			
Application Year:		2003			
Issue Date:		1/18/2003			
Approval Type:		Air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
22	13 of 35	NE/99.2	79.9 / -1.99	**Netistix Technologies Corp** **555 Legget Dr Suite 304** **Kanata ON K2K 2X3**	SCT
Established:		01-DEC-02			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Office Administrative Services			
SIC/NAICS Code:		561110			
Description:		Software Publishers			
SIC/NAICS Code:		511210			
22	14 of 35	NE/99.2	79.9 / -1.99	**Sch Specialty Literacy/Interve** **555 Legget Dr Suite 900** **Kanata ON K2K 2X3**	SCT
Established:		01-AUG-92			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Software Publishers			
SIC/NAICS Code:		511210			
Description:		Software Publishers			
SIC/NAICS Code:		511210			
22	15 of 35	NE/99.2	79.9 / -1.99	**Redirack Storage Systems** **555 Legget Dr Suite 1007** **Kanata ON K2K 2X3**	SCT
Established:					
Plant Size (ft²):					
Employment:					

--Details--
Description: Metal Service Centres
SIC/NAICS Code: 416210

Description: Other Metal Container Manufacturing
SIC/NAICS Code: 332439

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Lumber, Plywood and Millwork Wholesaler-Distributors
SIC/NAICS Code: 416320

Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code: 417910

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

22	***16 of 35***	***NE/99.2***	***79.9 / -1.99***	***Mediphan Inc.*** ***555 Legget Dr Suite 305*** ***Ottawa ON K2K 2X3***	***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

Description: Medical Equipment and Supplies Manufacturing
SIC/NAICS Code: 339110

22	***17 of 35***	***NE/99.2***	***79.9 / -1.99***	***KRP Management Services Inc.***	***GEN***

555 Legget Drive
Ottawa ON

Generator No:	ON4875456	***Status:***	
SIC Code:	561420, 531120	***Co Admin:***	
SIC Description:	Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)	***Choice of Contact:***	
Approval Years:	2009	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES

22	***18 of 35***	***NE/99.2***	***79.9 / -1.99***	***KRP Management Services Inc.*** ***555 Legget Drive*** ***Ottawa ON***	***GEN***

Generator No:	ON4875456	***Status:***	
SIC Code:	561420, 531120	***Co Admin:***	
SIC Description:	Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)	***Choice of Contact:***	
Approval Years:	2010	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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22 | **19 of 35** | **NE/99.2** | **79.9 / -1.99** | **KRP Management Services Inc.**
555 Legget Drive
Ottawa ON | **GEN**

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

22	20 of 35	NE/99.2	79.9 / -1.99	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

22	21 of 35	NE/99.2	79.9 / -1.99	**KANATA RESEARCH PARK** **555 LEGGET Drive** **KANATA ON K2K2X3**	NPRI

NPRI ID:	8800000226	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWERS A & B	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	1036	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10102-43-9
Report ID:	
Rpt Period:	2004
Subst Released:	Oxides of nitrogen (expressed as NO)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M08
Report ID:	
Rpt Period:	2004

Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

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22 | ***22 of 35*** | ***NE/99.2*** | ***79.9 / -1.99*** | ***KRP Management Services Inc.*** ***555 Legget Drive*** ***Ottawa ON*** | ***GEN***

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: TELEPHONE CALL CENTRES, LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

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

Waste Class: 243

Waste Class Desc: PCBS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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22 | **23 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Dr Ottawa ON K2K2X3** | **EHS**

Order No: 20150903032
Status: C
Report Type: Custom Report
Report Date: 09-SEP-15
Date Received: 03-SEP-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.919803
Y: 45.348953

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22 | **24 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Dr Ottawa ON K2K2X3** | **EHS**

Order No: 20150304029
Status: C
Report Type: Custom Report
Report Date: 09-MAR-15
Date Received: 04-MAR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.919787
Y: 45.349161

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22 | **25 of 35** | **NE/99.2** | **79.9 / -1.99** | **Kanata Research Park Corporation 555 Legget Drive Ottawa ON K2K 2X3** | **ECA**

Approval No: 4220-5HUVP4
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 555 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8337-5DXR24-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.909996
Latitude: 45.346844
Geometry X:
Geometry Y:

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22 | **26 of 35** | **NE/99.2** | **79.9 / -1.99** | **Kanata Research Park Corp. 555 Legget Drive Ottawa ON K2K 2X3** | **GEN**

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS

Status:
Co Admin: Paul Allen
Choice of Contact: CO_ADMIN

Approval Years:	2016	**Phone No Admin:**	613-591-0594 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	135
Waste Class Desc:	REACTIVE ANION WASTES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	242
Waste Class Desc:	HALOGENATED PESTICIDES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

22 | ***27 of 35*** | ***NE/99.2*** | ***79.9 / -1.99*** | ***Kanata Research Park Corp.***
555 Legget Drive
Ottawa ON K2K 2X3 | ***GEN***

Generator No:	ON4875456	**Status:**	
SIC Code:	531310	**Co Admin:**	Bob Bisson
SIC Description:	REAL ESTATE PROPERTY MANAGERS	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	613-591-0594 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

22	28 of 35	NE/99.2	79.9 / -1.99	**Kanata Research Park Corp.** **555 Legget Drive** **Ottawa ON K2K 2X3**	GEN

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Bob Bisson
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-591-0594 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 135
Waste Class Desc: REACTIVE ANION WASTES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 243
Waste Class Desc: PCBS

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22 | **29 of 35** | **NE/99.2** | **79.9 / -1.99** | **KRP Properties A Division of Wesley Clover Interna**
555 Legget Drive
Ottawa ON K2K 2X3 | **GEN**

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

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

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 135 C
Waste Class Desc: Wastes containing other reactive anions

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I

Waste Class Desc: Petroleum distillates

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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22 | ***30 of 35*** | ***NE/99.2*** | ***79.9 / -1.99*** | ***KRP Properties A Division of Wesley Clover Interna***
555 Legget Drive
Ottawa ON K2K 2X3 | ***GEN***

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 135 C
Waste Class Desc: Wastes containing other reactive anions

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

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

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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22 | **31 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

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22 | **32 of 35** | **NE/99.2** | **79.9 / -1.99** | **KRP Properties A Division of Wesley Clover Interna
555 Legget Drive
Ottawa ON K2K 2X3** | **GEN**

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 112 C
Waste Class Desc: Acid solutions - containing heavy metals

Waste Class: 135 C
Waste Class Desc: Wastes containing other reactive anions

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 243 D
Waste Class Desc: PCB

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

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

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

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

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

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22 | **33 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

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22 | **34 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

---

22 | **35 of 35** | **NE/99.2** | **79.9 / -1.99** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

---

23 | **1 of 2** | **SSE/106.7** | **80.8 / -1.14** | **Trend Micro, Inc. 40 Hines Rd Suite 200 Kanata ON K2K 2M5** | **SCT**

Established: 01-AUG-98
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

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

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

23 **2 of 2** **SSE/106.7** **80.8 / -1.14** **KRP Properties**
40 Hines Road
Ottawa ON K2K 2M5
GEN

Generator No: ON5372742
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

---

24 **1 of 10** **E/107.7** **78.7 / -3.19** **Open Text Corporation**
515 Legget Dr Suite 300
Kanata ON K2K 3G4
SCT

Established: 1983
Plant Size (ft²): 19000
Employment: 55

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

---

24 **2 of 10** **E/107.7** **78.7 / -3.19** **Ubiquity Software Corp.**
515 Legget Dr Suite 400
Ottawa ON K2K 3G4
SCT

Established: 1993
Plant Size (ft²):
Employment: 90

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

---

24 **3 of 10** **E/107.7** **78.7 / -3.19** **Kanata Research Park Corporation**
515 Legget drive
Ottawa ON
SPL

Ref No: 8118-7LCLK2
Site No:
Incident Dt:
Discharger Report:
Material Group:
Health/Env Conseq:

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

Year:		**Client Type:**	
Incident Cause:	Unknown	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	Ottawa
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	Referral to others	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	11/13/2008	**Site Map Datum:**	
Dt Document Closed:	11/26/2008	**SAC Action Class:**	Land Spills
Incident Reason:	Unknown - Reason not determined	**Source Type:**	

Site Name: Kanata Research Park Corp<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Kanata Research Park, Diesel to Grnd cln
Contaminant Qty: other - see incident description

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24 **4 of 10** **E/107.7** **78.7 / -3.19** **Kanata Research Park Corporation** **CA**
515 Legget Drive
Ottawa ON

Certificate #: 2275-5HUW47
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

24 **5 of 10** **E/107.7** **78.7 / -3.19** **Quest Software Canada Inc.** **SCT**
515 Legget Dr Suite 1001
Kanata ON K2K 3G4

Established: 01-APR-87
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

---

24 **6 of 10** **E/107.7** **78.7 / -3.19** **515 LEGGET DRIVE** **HINC**
KANATA ON

External File Num: FS INC 0811-07034

Fuel Occurrence Type:	Leak
Date of Occurrence:	11/13/2008
Fuel Type Involved:	Fuel Oil
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Commercial (e.g. restaurant, business unit, etc)
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:Yes Training: Yes Management:No Human Factors:Yes
Reported Details:	
Fuel Category:	Liquid Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

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24 | ***7 of 10*** | ***E/107.7*** | ***78.7 / -3.19*** | ***515 Legget Drive Ottawa ON*** | ***EHS***

Order No:	20120116006	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	1/20/2012	**Search Radius (km):**	0.25
Date Received:	1/16/2012 11:23:28 AM	**X:**	-75.91645
Previous Site Name:		**Y:**	45.346799
Lot/Building Size:			
Additional Info Ordered:			

---

24 | ***8 of 10*** | ***E/107.7*** | ***78.7 / -3.19*** | ***KANATA RESEARCH PARK 515 LEGGET Drive KANATA ON K2K3G4*** | ***NPRI***

NPRI ID:	8800000228	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	
Rpt Type ID:		**Cont First Name:**	
Report Year:	2004	**Cont Last Name:**	
Not-Current Rpt?:		**Contact Position:**	
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	TOWER D	**Cont Area Code:**	
Fac Address1:		**Contact Tel.:**	
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	294	**Waste Streams:**	
Parent Co.:		**No Streams:**	

No Parent Co.: ***Waste Off Sites:***
Pollut Prev Cmnts: ***No Off Sites:***
Stacks: ***Shutdown:***
No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Substance Release Report

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:

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

Units:	tonnes
CAS No:	74-82-8
Report ID:	
Rpt Period:	2004
Subst Released:	Methane
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	7446-09-5
Report ID:	
Rpt Period:	2004
Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	811-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	HFC-134a Hydrofluorocarbon
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M08
Report ID:	
Rpt Period:	2004
Subst Released:	PM - Total Particulate Matter
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M10
Report ID:	
Rpt Period:	2004
Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

24	9 of 10	E/107.7	78.7 / -3.19	515 Legget Dr Ottawa ON K2K3G4	EHS

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

Order No:	20160614073	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	20-JUN-16	**Search Radius (km):**	.25
Date Received:	14-JUN-16	**X:**	-75.917214
Previous Site Name:		**Y:**	45.347623
Lot/Building Size:			
Additional Info Ordered:			

---

24 | **10 of 10** | **E/107.7** | **78.7 / -3.19** | **Kanata Research Park Corporation**
515 Legget Drive
Ottawa ON K2K 2X3 | **ECA**

Approval No:	2275-5HUW47	**MOE District:**	Ottawa
Approval Date:	2003-01-18	**City:**	
Status:	Approved	**Longitude:**	-75.91614
Record Type:	ECA	**Latitude:**	45.346527
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Kanata Research Park Corporation		
Address:	515 Legget Drive		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4311-5DXQ9R-14.pdf		
PDF Site Location:			

---

25 | **1 of 2** | **ENE/119.0** | **77.2 / -4.75** | **525 Legget Drive**
Ottawa (Formerly Kanata) ON K2K 2W2 | **EHS**

Order No:	20070627004	**Nearest Intersection:**	Terry Fox Drive and Legget Drive
Status:	C	**Municipality:**	Ottawa
Report Type:	CAN - Complete Report	**Client Prov/State:**	
Report Date:	7/6/2007	**Search Radius (km):**	0.25
Date Received:	6/27/2007	**X:**	-75.918152
Previous Site Name:		**Y:**	45.348691
Lot/Building Size:	4.55 Acre		
Additional Info Ordered:	City Directory		

---

25 | **2 of 2** | **ENE/119.0** | **77.2 / -4.75** | **Legget Drive Development Inc.**
515 and 525 Legget Dr
Ottawa ON K1P 6E2 | **ECA**

Approval No:	3598-9STV8V	**MOE District:**	
Approval Date:	2015-01-16	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Legget Drive Development Inc.		
Address:	515 and 525 Legget Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7005-9RARBH-14.pdf		
PDF Site Location:			

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26 | **1 of 4** | **SSW/119.6** | **83.9 / 1.95** | **70 Hines Rd.**
Kanata ON K2K 2M5 | **EHS**

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

Order No:	20030506003	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Complete Report	**Client Prov/State:**	ON
Report Date:	5/14/03	**Search Radius (km):**	0.35
Date Received:	5/6/03	**X:**	-75.922054
Previous Site Name:		**Y:**	45.345364
Lot/Building Size:			
Additional Info Ordered:			

26	2 of 4	SSW/119.6	83.9 / 1.95	**2117547 Ontario Inc.** **70 Hines Rd** **Ottawa ON**	CA

Certificate #:	1183-8GPFW8
Application Year:	2011
Issue Date:	5/20/2011
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

26	3 of 4	SSW/119.6	83.9 / 1.95	**2117547 Ontario Inc.** **70 Hines Rd** **Ottawa ON K2V 1B8**	ECA

Approval No:	1183-8GPFW8	**MOE District:**	Ottawa
Approval Date:	2011-05-20	**City:**	
Status:	Approved	**Longitude:**	-75.92153
Record Type:	ECA	**Latitude:**	45.34491
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	2117547 Ontario Inc.		
Address:	70 Hines Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4593-89YRCE-14.pdf		
PDF Site Location:			

26	4 of 4	SSW/119.6	83.9 / 1.95	**Rogers Communications Inc.** **70 Hines Rd.; 70 Hines Rd** **Ottawa; Ottawa ON K2K 2M5**	SPL

Ref No:	4845-BF9RH6	**Discharger Report:**	
Site No:	NA; 3801-89YRCZ	**Material Group:**	
Incident Dt:	8/20/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Unknown / N/A
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	70 Hines Rd.; 70 Hines Rd
Contaminant Limit 1:		**Site District Office:**	Ottawa; Ottawa
Contam Limit Freq 1:		**Site Postal Code:**	K2K 2M5
Contaminant UN No 1:	1202	**Site Region:**	Eastern

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

Environment Impact:		**Site Municipality:**	Ottawa; Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	NA
Receiving Env:	Land; Source Water Zone	**Northing:**	NA
MOE Response:	No	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	8/21/2019	**Site Map Datum:**	NA
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Material Failure - Poor Design/Substandard Material	**Source Type:**	Valve/Fitting/Piping

Site Name: Legion Branch 638<UNOFFICIAL>; 70 Hines Road
Site County/District: NA
Site Geo Ref Meth: NA
Incident Summary: Rogers: ~150-250L diesel to ground/cracked line
Contaminant Qty: 250 L

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27 **1 of 2** **SSW/119.7** **84.6 / 2.67** **80 Hines Road**
n/a ON K2K 2T8 **EHS**

Order No:	20060623001w	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Online Mapless	**Client Prov/State:**	CA
Report Date:	6/23/2006	**Search Radius (km):**	0.25
Date Received:	6/23/2006	**X:**	
Previous Site Name:		**Y:**	
Lot/Building Size:			
Additional Info Ordered:			

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27 **2 of 2** **SSW/119.7** **84.6 / 2.67** **AMCC**
80 Hines Rd.
Kanata ON K2K 2T8 **GEN**

Generator No:	ON4203674	**Status:**	
SIC Code:	339990	**Co Admin:**	
SIC Description:	All Other Miscellaneous Manufacturing	**Choice of Contact:**	
Approval Years:	06,07,08	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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28 **1 of 7** **WSW/121.8** **84.9 / 2.99** **ROHDE & SCHWARZ CANADA**
555 MARCH RD
KANATA ON K2K 2M5 **SCT**

Established: 1970
Plant Size (ft²): 6000
Employment: 17

--Details--
Description: RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT

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

SIC/NAICS Code: 3663

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

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28 **2 of 7** **WSW/121.8** **84.9 / 2.99** **TEKTRONIX CANADA INC.**
555 MARCH RD
KANATA ON K2K 2M5
SCT

Established: 0000
Plant Size (ft²): 0
Employment: 8

--Details--
Description: COMPUTERS AND COMPUTER PERIPHERAL EQUIPMENT AND SOFTWARE
SIC/NAICS Code: 5045

Description: ELECTRONIC PARTS AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5065

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28 **3 of 7** **WSW/121.8** **84.9 / 2.99** **Rohde & Schwarz Canada Inc.**
555 March Rd
Kanata ON K2K 2M5
SCT

Established: 1970
Plant Size (ft²): 8000
Employment: 23

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

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28 **4 of 7** **WSW/121.8** **84.9 / 2.99** **Localcity**
555 March Rd
Kanata ON K2K 2M5
SCT

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

28 **5 of 7** **WSW/121.8** **84.9 / 2.99** **Local City Inc.**
555 March Rd
SCT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Kanata ON K2K 2M5	

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

28 | **6 of 7** | **WSW/121.8** | **84.9 / 2.99** | **ASAP-CD Solutions**
555 March Rd
Ottawa ON K2K 2M5 | **SCT**

Established: 1996
Plant Size (ft²):
Employment: 7

--Details--
Description: Commercial Screen Printing
SIC/NAICS Code: 323113

Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Sound Recording Studios
SIC/NAICS Code: 512240

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28 | **7 of 7** | **WSW/121.8** | **84.9 / 2.99** | **555 March Road**
Ottawa (Kanata) ON | **EHS**

Order No: 20050715001
Status: C
Report Type: Custom Report
Report Date: 7/25/2005
Date Received: 7/15/2005
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.922669
Y: 45.347131

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29 | **1 of 19** | **W/135.6** | **84.8 / 2.88** | **NEWBRIDGE NETWORKS CORP. - 8-4051-90**
603 MARCH ROAD (8-4053-90)
KANATA CITY ON K2K 2M5 | **CA**

Certificate #: 8-4052-90-
Application Year: 90
Issue Date: 4/27/1990
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name:
Client Address:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEM NO. 2			
Contaminants:					
Emission Control:					

29	2 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORP. 8-4052-90 603 MARCH ROAD KANATA CITY ON K2K 2M5	CA
Certificate #:		8-4053-90-			
Application Year:		90			
Issue Date:		4/27/1990			
Approval Type:		Industrial air			
Status:		Cancelled			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEM NO. 3			
Contaminants:					
Emission Control:					

29	3 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORP. - 8-4053-90 603 MARCH ROAD (8-4051-90) KANATA CITY ON K2K 2M5	CA
Certificate #:		8-4054-90-			
Application Year:		90			
Issue Date:		4/27/1990			
Approval Type:		Industrial air			
Status:		Cancelled			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEM NO. 5			
Contaminants:					
Emission Control:					

29	4 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORP. - 8-4052-90 603 MARCH ROAD (8-4054-90) KANATA CITY ON K2K 2M5	CA
Certificate #:		8-4051-90-			
Application Year:		90			
Issue Date:		8/7/1991			
Approval Type:		Industrial air			
Status:		Approved in 1991			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		EXHAUST SYSTEN NO. 1			
Contaminants:		N-Propyl Alcohol, Trifluorotrichloroethane, Acetone, Other Contaminant, Methyl Chloroform, Hydrogen Peroxide, N-Propyl Alcohol, Propylene Glycolmonomethyl Ether Acetate,P.M.Ace.			
Emission Control:		No Controls			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	5 of 19	W/135.6	84.8 / 2.88	TUNDRA SEMICONDUCTORS CORPORAT 603 MARCH RD KANATA ON K2K 2M5	SCT

Established: 1983
Plant Size (ft²): 40000
Employment: 60

--Details--
Description: INDUSTRIAL INSTRUMENTS FOR MEASUREMENT, DISPLAY, AND CONTROL OF PROCESS VARIABLES; & RELATED ITEMS
SIC/NAICS Code: 3823

Description: SEMICONDUCTORS AND RELATED DEVICES
SIC/NAICS Code: 3674

Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	6 of 19	W/135.6	84.8 / 2.88	Tundra Semiconductor Corp 603 March Rd Kanata ON K2K 2M5	SCT

Established: 1995
Plant Size (ft²): 40000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	7 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	CA

Certificate #: 8-4051-90-916
Application Year: 01
Issue Date: 4/6/01
Approval Type: Industrial air
Status: Approved
Application Type: Revocation
Client Name: Newbridge Networks Corporation
Client Address: 600 March Road, P.O. Box 13600
Client City: Kanata
Client Postal Code: K2K 2E6
Project Description: Revocation of CofA for Exhaust System No. 1 serving the Environmental Testing Room, Exhaust System No. 2 serving the Clean Room, Exhaust system No. 3 serving the soldering stations in the Production Area, and the Exhaust System No. 5 serving the Burn-In Laboratory.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	8 of 19	W/135.6	84.8 / 2.88	TRILLIUM TELEPHONE SYSTEMS INC. 603 MARCH ROAD KANATA ON K2K 2M5	GEN

Generator No: ON0424800
SIC Code: 3351
Status:
Co Admin:

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

SIC Description: TELECOMMUNICATIONS
Approval Years: 86,87,88,89,90
PO Box No:
Country:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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29 **9 of 19** **W/135.6** **84.8 / 2.88** **TRILLIUM TELEPHONE SYSTEMS INC.** **GEN**
603 MARCH ROAD
KANATA ON K2K 2M5

Generator No: ON0424800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 92,93
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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29 **10 of 19** **W/135.6** **84.8 / 2.88** **TRILLIUM TELEPHONE SYSTEMS INC. 38-102** **GEN**
603 MARCH ROAD
KANATA ON K2K 2M5

Generator No: ON0424800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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29 **11 of 19** **W/135.6** **84.8 / 2.88** **TRILLIUM TELEPHONE (OUT OF BUS)** **GEN**
603 MARCH ROAD
KANATA ON K2K 2M5

Generator No: ON0424800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	12 of 19	W/135.6	84.8 / 2.88	NEWBRIDGE NETWORKS CORPORATION 28-807 603 MARCH ROAD C/O 600 MARCH RD., P.O. BOX 13600 KANATA ON K2K 2M5	GEN

Generator No: ON1052001
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 92,93,94,95,96,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Desc: ACID WASTE - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	13 of 19	W/135.6	84.8 / 2.88	Tundra Semiconductor Corporation 603 March Road Kanata ON K2K 2M5	GEN

Generator No: ON9981810
SIC Code: 334410
SIC Description: Semiconductor and Other Electronic Component Manufacturing
Approval Years: 05
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	14 of 19	W/135.6	84.8 / 2.88	IDT Canada 603 March Rd Kanata ON K2K 2M5	SCT

Established: 01-JUL-79
Plant Size (ft²): 40000
Employment:

--Details--
Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	15 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No: 20312300041
Status: C
Report Type: Standard Report
Report Date: 26-NOV-20
Date Received: 23-NOV-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9252848
Y: 45.3478313

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	16 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No:	20312300041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-NOV-20	**Search Radius (km):**	.25
Date Received:	23-NOV-20	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	17 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No:	20312300041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-NOV-20	**Search Radius (km):**	.25
Date Received:	23-NOV-20	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	18 of 19	W/135.6	84.8 / 2.88	603 March Road Kanata ON K2K 2M5	EHS

Order No:	20312300041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	26-NOV-20	**Search Radius (km):**	.25
Date Received:	23-NOV-20	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	19 of 19	W/135.6	84.8 / 2.88	603 March Rd Kanata ON K2K 2M5	EHS

Order No:	21102800425	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	02-NOV-21	**Search Radius (km):**	.25
Date Received:	28-OCT-21	**X:**	-75.9252848
Previous Site Name:		**Y:**	45.3478313
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	1 of 1	WSW/141.1	85.7 / 3.80	D.I.R. Investments Inc. Ottawa ON K0A 1A0	ECA

Approval No:	2390-6NBQN4	**MOE District:**	Ottawa
Approval Date:	2006-04-03	**City:**	
Status:	Approved	**Longitude:**	-75.92376
Record Type:	ECA	**Latitude:**	45.346516
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: D.I.R. Investments Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8134-6MRTG9-14.pdf
PDF Site Location:

---

31 | 1 of 1 | ESE/152.1 | 77.9 / -4.05 | **Broccolini Construction Ottawa Inc.**
515 Legget Drive
Ottawa ON K2K 3G4 | GEN

Generator No: ON3449897
SIC Code: 236210, 235220
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION, 235220
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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32 | 1 of 16 | S/155.3 | 82.9 / 0.95 | **EXCALIBUR SYSTEMS LTD.**
50 Hines Rd
Kanata ON K2K 2M5 | SCT

Established: 1988
Plant Size (ft²): 10000
Employment: 21

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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32 | 2 of 16 | S/155.3 | 82.9 / 0.95 | **HUBER & SUHNER CANADA**
50 HINES ROAD
KANATA ON K2K 2M5 | GEN

Generator No: ON2494100
SIC Code: 4821
SIC Description: TELECOMMUN. CARRRIERS
Approval Years: 99,00,01,03
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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32 | **3 of 16** | **S/155.3** | **82.9 / 0.95** | **HUBER & SUHNER CANADA**
50 HINES ROAD
KANATA ON K2K 2M5 | **GEN**

Generator No: ON2494100
SIC Code:
SIC Description:
Approval Years: 02
PO Box No:
Country:

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

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32 | **4 of 16** | **S/155.3** | **82.9 / 0.95** | **HUBER & SUHNER CANADA**
50 HINES ROAD
KANATA ON K2K 2M5 | **GEN**

Generator No: ON2494100
SIC Code:
SIC Description:
Approval Years: 04
PO Box No:
Country:

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

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32 | **5 of 16** | **S/155.3** | **82.9 / 0.95** | **DRS EW & Network Systems**
50 Hines Rd
Kanata ON K2K 2M5 | **SCT**

Established: 1988
Plant Size (ft²): 10000
Employment: 25

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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32 | **6 of 16** | **S/155.3** | **82.9 / 0.95** | **WorkDynamics Technologies**
50 Hines Rd Suite 220
Kanata ON K2K 2M5 | **SCT**

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

Established: 01-OCT-98
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

32	7 of 16	S/155.3	82.9 / 0.95	**DRS EW & Network Systems (Canada) Ltd.** **50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa** **ON**	EBR

EBR Registry No: IA04E1366
Ministry Ref No: 5540-654NXU
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 22, 2005
Proposal Date: September 24, 2004
Year: 2004
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: DRS EW & Network Systems (Canada) Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road, Suite 200, Ottawa Ontario, K2K 2M5
Comment Period:
URL:

Site Location Details:

50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa

32	8 of 16	S/155.3	82.9 / 0.95	**Power Integrations Canada Inc.** **50 Hines Rd Suite 240** **Kanata ON K2K 2M5**	SCT

Established: 01-AUG-00
Plant Size (ft²):
Employment:

--Details--
Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

32	9 of 16	S/155.3	82.9 / 0.95	**OneChip Photonics Inc.** **50 Hines Rd Suite 200** **Kanata ON K2K 2M5**	SCT

Established: 8/1/2005
Plant Size (ft²): 17000
Employment:

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

--Details--
Description: Commercial and Service Industry Machinery Manufacturing
SIC/NAICS Code: 333310

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32 ***10 of 16*** ***S/155.3*** ***82.9 / 0.95*** ***Cyrium Technologies Incorporated*** ***EBR***
50 Hines Road Unit Suite 200 Ottawa K2K 2M5
CITY OF OTTAWA
ON

EBR Registry No: 010-9829
Ministry Ref No: 5633-84JKT3
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 07, 2011
Proposal Date: April 27, 2010
Year: 2010
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Cyrium Technologies Incorporated
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road , Suite 200, Kanata Ontario, Canada K2K 2M5
Comment Period:
URL:

Site Location Details:

50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA

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

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32 ***11 of 16*** ***S/155.3*** ***82.9 / 0.95*** ***Cyrium Technologies Incorporated*** ***CA***
50 Hines Rd Kanata
Ottawa ON

Certificate #: 0093-89LSKT
Application Year: 2010
Issue Date: 12/15/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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32 ***12 of 16*** ***S/155.3*** ***82.9 / 0.95*** ***DRS EW & Network Systems (Canada) Ltd.*** ***CA***
50 Hines Road, Suite 200
Ottawa ON

Certificate #: 0429-69NPJ2
Application Year: 2005
Issue Date: 2/16/2005
Approval Type: Air
Status: Approved

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

Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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32 | ***13 of 16*** | ***S/155.3*** | ***82.9 / 0.95*** | ***Merge Healthcare Incorporated*** ***50 Hines Rd Suite 120*** ***Kanata ON K2K 2M5*** | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

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32 | ***14 of 16*** | ***S/155.3*** | ***82.9 / 0.95*** | ***GaN Systems Inc.*** ***50 Hines road, suite 204*** ***Ottawa ON*** | ***GEN***

Generator No: ON8149211
SIC Code: 334290
SIC Description: OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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32 | ***15 of 16*** | ***S/155.3*** | ***82.9 / 0.95*** | ***Cyrium Technologies Incorporated*** ***50 Hines Rd Kanata*** ***Ottawa ON*** | ***ECA***

Approval No: 0093-89LSKT
Approval Date: 2010-12-15
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Cyrium Technologies Incorporated

MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

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

Address: 50 Hines Rd Kanata
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5633-84JKT3-14.pdf
PDF Site Location:

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32 **16 of 16** **S/155.3** **82.9 / 0.95** **DRS EW & Network Systems (Canada) Ltd.**
50 Hines Road, Suite 200
Ottawa ON K2K 2M5
ECA

Approval No: 0429-69NPJ2
Approval Date: 2005-02-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: DRS EW & Network Systems (Canada) Ltd.
Address: 50 Hines Road, Suite 200
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5540-654NXU-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

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33 **1 of 1** **W/165.4** **84.9 / 3.02** **595 March Road, Block E**
Kanata ON
EHS

Order No: 20071130013
Status: C
Report Type: CAN - Complete Report
Report Date: 12/5/2007
Date Received: 11/30/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory
Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -75.925221
Y: 45.347369

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34 **1 of 7** **SSW/169.0** **84.8 / 2.92** **TeleWatch Monitoring Services**
84 Hines Rd Suite 130
Kanata ON K2K 3G3
SCT

Established: 2003
Plant Size (ft²):
Employment:

--Details--
Description: Other Scientific and Technical Consulting Services
SIC/NAICS Code: 541690

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

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34 **2 of 7** **SSW/169.0** **84.8 / 2.92** **Metconnex Inc.**
84 Hines Road Suite 260
GEN

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

Generator No: ON3229484
SIC Code: 339990
SIC Description: All Other Miscellaneous Manufacturing
Approval Years: 06
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	3 of 7	SSW/169.0	84.8 / 2.92	Sidense Corp. 84 Hines Rd Suite 260 Kanata ON K2K 3G3	SCT

Established: 01-AUG-04
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	4 of 7	SSW/169.0	84.8 / 2.92	Skyworks Solutions (Test Lab) 84 Hines Rd, Suite 100 Kanata ON K2K 3G3	GEN

Generator No: ON9560250
SIC Code: 417310
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS
Approval Years: 2016
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	5 of 7	SSW/169.0	84.8 / 2.92	Skyworks Solutions Inc 100-84 Hines Road Kanata ON K2K 3G3	GEN

Generator No: ON7912119
SIC Code: 417310
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL

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

Approval Years: 2016
PO Box No:
Country: Canada
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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34 ***6 of 7*** ***SSW/169.0*** ***84.8 / 2.92*** ***Skyworks Solutions Inc*** ***GEN***
100-84 Hines Road
Kanata ON K2K 3G3

Generator No: ON7912119
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

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34 ***7 of 7*** ***SSW/169.0*** ***84.8 / 2.92*** ***Skyworks Solutions Inc*** ***GEN***
100-84 Hines Road
Kanata ON K2K 3G3

Generator No: ON7912119
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

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35 ***1 of 2*** ***NNE/169.3*** ***75.4 / -6.50*** ***INSTANTEL INC.*** ***SCT***
362 TERRY FOX DR
KANATA ON K2K 2P5

Established: 1982
Plant Size (ft²): 1200
Employment: 50

--Details--
Description: MEASURING AND CONTROLLING DEVICES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3829

Description: SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS
SIC/NAICS Code: 3841

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
35	2 of 2	NNE/169.3	75.4 / -6.50	Coyle Publishing Inc. 362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	SCT

Established: 01-JAN-88
Plant Size (ft²): 1000
Employment:

--Details--
Description: Periodical Publishers
SIC/NAICS Code: 511120

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	1 of 12	SW/173.5	85.9 / 3.95	WILLIAM S. BURNSIDE (CANADA) LIMITED 88 HINES ROAD (SWM) KANATA ON K2K 2T8	CA

Certificate #: 3-0347-98-
Application Year: 98
Issue Date: 6/12/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	2 of 12	SW/173.5	85.9 / 3.95	Flexus Electronics Inc. 88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SCT

Established: 01-AUG-91
Plant Size (ft²): 7000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	3 of 12	SW/173.5	85.9 / 3.95	Flexus Inc. 88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SCT

Established: 9/1/1991
Plant Size (ft²): 7000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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36 ***4 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***Telemus Inc.*** ***GEN***
88 Hines Road
Ottawa ON K2K 2T8

Generator No: ON7263654 ***Status:***
SIC Code: 335990 ***Co Admin:***
SIC Description: All Other Electrical Equipment and Component Manufacturing ***Choice of Contact:***
Approval Years: 04,05,06 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

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36 ***5 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***Telemus Inc.*** ***SCT***
88 Hines Rd
Kanata ON K2K 2T8

Established: 1994
Plant Size (ft²):
Employment:

--Details--
Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Engineering Services
SIC/NAICS Code: 541330

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36 ***6 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC.*** ***GEN***
88 HINES RD
KANATA ON

Generator No: ON5315252 ***Status:***
SIC Code: 335990 ***Co Admin:***
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND ***Choice of Contact:***

COMPONENT MANUFACTURING

Approval Years: 2013
PO Box No:
Country:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

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36 | ***7 of 12*** | ***SW/173.5*** | ***85.9 / 3.95*** | ***Ultra Electronics***
88 Hines Rd
Kanata ON K2K 2T8 | ***SCT***

Established: 01-AUG-94
Plant Size (ft²):
Employment:

--Details--
Description: Engineering Services
SIC/NAICS Code: 541330

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

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36 | ***8 of 12*** | ***SW/173.5*** | ***85.9 / 3.95*** | ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON K2K 2T8 | ***GEN***

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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36 ***9 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON K2K 2T8 ***GEN***

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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36 ***10 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON K2K 2T8 ***GEN***

Generator No: ON5315252
Status:

SIC Code:	335990	**Co Admin:**	
SIC Description:	All Other Electrical Equipment and Component Manufacturing	**Choice of Contact:**	
Approval Years:	2010	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS

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36 ***11 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***ULTRA ELECTRONICS 88 HINES RD OTTAWA ON K2K2T8*** ***GEN***

Generator No:	ON4360723	**Status:**	
SIC Code:	334410	**Co Admin:**	
SIC Description:	SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

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36 ***12 of 12*** ***SW/173.5*** ***85.9 / 3.95*** ***954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2B8*** ***GEN***

Generator No:	ON5315252	**Status:**	
SIC Code:	335990	**Co Admin:**	Nguyen Tieu
SIC Description:	ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2014	**Phone No Admin:**	613-591-0768 Ext.

PO Box No: | **Contam. Facility:** No
Country: Canada | **MHSW Facility:** No

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

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

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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37 | ***1 of 3*** | ***SW/173.7*** | ***85.9 / 3.95*** | ***Ultra Electronics Canada Defence Inc.*** | ***GEN***
88 Hines Road
Ottawa ON

Generator No: ON7263654 | **Status:**
SIC Code: 335990 | **Co Admin:**
SIC Description: All Other Electrical Equipment and Component Manufacturing | **Choice of Contact:**
Approval Years: 2009 | **Phone No Admin:**
PO Box No: | **Contam. Facility:**
Country: | **MHSW Facility:**

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

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37 | ***2 of 3*** | ***SW/173.7*** | ***85.9 / 3.95*** | ***Ultra Electronics TCS Inc.*** | ***GEN***

88 Hines Road
Ottawa ON

Generator No:	ON7263654	***Status:***	
SIC Code:	335990	***Co Admin:***	
SIC Description:	All Other Electrical Equipment and Component Manufacturing	***Choice of Contact:***	
Approval Years:	2010	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

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37 ***3 of 3*** ***SW/173.7*** ***85.9 / 3.95***

Ultra Electronics TCS Inc.
88 Hines Road
Ottawa ON

GEN

Generator No:	ON7263654	***Status:***	
SIC Code:	335990	***Co Admin:***	
SIC Description:	All Other Electrical Equipment and Component Manufacturing	***Choice of Contact:***	
Approval Years:	2011	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	122

Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

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38 | **1 of 1** | **WSW/179.6** | **85.8 / 3.89** | **591 MARCH ROAD lot 9 con 3 KANATA ON** | **WWIS**

Well ID: 7151742
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z107013
Tag: A094409
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 9/22/2010
Selected Flag: True
Abandonment Rec:
Contractor: 6964
Form Version: 7
Owner:
Street Name: 591 MARCH ROAD
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/715\7151742.pdf

Additional Detail(s) (Map)

Well Completed Date: 2010/07/20
Year Completed: 2010
Depth (m): 7.85
Latitude: 45.3465988786813
Longitude: -75.9245118807105
Path: 715\7151742.pdf

Bore Hole Information

Bore Hole ID: 1003338591
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 20-Jul-2010 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 81.441329
Elevrc:
Zone: 18
East83: 427575.00
North83: 5021870.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1003478980

Layer: 5
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 16
Mat2 Desc: DOLOMITE
Mat3:
Mat3 Desc:
Formation Top Depth: 1.899999976158142
Formation End Depth: 7.849999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478979
Layer: 4
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.4199999570846558
Formation End Depth: 1.899999976158142
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478977
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 84
Mat3 Desc: SILTY
Formation Top Depth: 0.03999999910593033
Formation End Depth: 0.46000000834465027
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478978
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3: 84
Mat3 Desc: SILTY
Formation Top Depth: 0.46000000834465027
Formation End Depth: 1.4199999570846558
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1003478976
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	0.03999999910593033
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003478984
Layer:	2
Plug From:	6
Plug To:	7.84999990463257
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003478983
Layer:	1
Plug From:	0
Plug To:	6
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003478989
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1003478975
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003478986
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	6.34999990463257
Casing Diameter:	3.5
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003478987
Layer: 1
Slot: 10
Screen Top Depth: 6.34999990463257
Screen End Depth: 7.84999990463257
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.09999990463257

Water Details

Water ID: 1003478985
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003478981
Diameter: 7.5
Depth From: 0.0
Depth To: 1.8799999952316284
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1003478982
Diameter: 5.699999809265137
Depth From: 1.8799999952316284
Depth To: 7.849999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

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39 ***1 of 1*** ***SSE/189.5*** ***80.9 / -1.02*** ***ON*** ***BORE***

Borehole ID: 609771
OGF ID: 215511386
Status:
Type: Borehole
Use:
Completion Date: NOV-1952
Static Water Level: -13.0
Primary Water Use:
Sec. Water Use:
Total Depth m: 18.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 82.3
Elev Reliabil Note:
DEM Ground Elev m: 78.2
Concession:
Location D:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.343425
Longitude DD: -75.918645
UTM Zone: 18
Easting: 428031
Northing: 5021512
Location Accuracy:
Accuracy: Not Applicable

Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218384040	***Mat Consistency:***	
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:	18.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Sandstone	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			

Stratum Description: SANDSTONE. 315.0 FEET.GRAVEL. BEDROCK. BEDROCK,LIMESTONE. 3502204704500000001600000 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218384039	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			

Stratum Description: SOIL. BROWN.

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 02279 NTS_Sheet:
Confiden 1:

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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40 ***1 of 1*** ***SSE/189.6*** ***80.9 / -1.02*** ***lot 8 con 3 ON*** ***WWIS***

Well ID:	1503343	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	12/1/1952
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	MARCH TOWNSHIP

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	008
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503343.pdf

Additional Detail(s) (Map)

Well Completed Date:	1952/11/25
Year Completed:	1952
Depth (m):	18.8976
Latitude:	45.3434237229267
Longitude:	-75.9186447387699
Path:	150\1503343.pdf

Bore Hole Information

Bore Hole ID:	10025386	**Elevation:**	78.229843
DP2BR:	3.00	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	428030.60
Code OB Desc:	Bedrock	**North83:**	5021512.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	25-Nov-1952 00:00:00	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996626
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996627
Layer:	2
Color:	

General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503343
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573956
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043524
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043525
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 62
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503343
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 30.0
Recommended Pump Depth:
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM

Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456237
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55.0
Water Found Depth UOM:	ft

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41 | ***1 of 1*** | ***SE/191.0*** | ***79.6 / -2.36*** | ***3001 SOLANDT RD. KANATA ON*** | ***WWIS***

Well ID:	7296271	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	10/2/2017
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z262367	**Owner:**	
Tag:	A228985	**Street Name:**	3001 SOLANDT RD.
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	BLOCK 18
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7296271.pdf

Additional Detail(s) (Map)

Well Completed Date:	2017/08/30
Year Completed:	2017
Depth (m):	55.7784
Latitude:	45.3445114028557
Longitude:	-75.9165893549302
Path:	729\7296271.pdf

Bore Hole Information

Bore Hole ID:	1006747513	**Elevation:**	77.004211
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	428193.00
Code OB Desc:		**North83:**	5021631.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	30-Aug-2017 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr

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

Overburden and Bedrock Materials Interval

Formation ID: 1006933918
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 75.0
Formation End Depth: 90.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933916
Layer: 2
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 45.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933919
Layer: 5
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2: 20
Mat2 Desc: QUARTZITE
Mat3:
Mat3 Desc:
Formation Top Depth: 90.0
Formation End Depth: 125.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933921

Layer:	7
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	20
Mat2 Desc:	QUARTZITE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	173.0
Formation End Depth:	183.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933917
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933920
Layer:	6
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	20
Mat2 Desc:	QUARTZITE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	125.0
Formation End Depth:	173.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933915
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006933959
Layer:	2
Plug From:	46
Plug To:	0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006933958
Layer:	1
Plug From:	56
Plug To:	46
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006933957
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	SURGE

Pipe Information

Pipe ID:	1006933913
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Screen

Screen ID:	1006933929
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1006933914
Pump Set At:	140.0
Static Level:	6.0
Final Level After Pumping:	88.5999984741211
Recommended Pump Depth:	140.0
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	7.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0

Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1006933945
Test Type: Recovery
Test Duration: 20
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933947
Test Type: Recovery
Test Duration: 25
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933948
Test Type: Draw Down
Test Duration: 30
Test Level: 76.9000015258789
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933950
Test Type: Draw Down
Test Duration: 40
Test Level: 80.4000015258789
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933942
Test Type: Draw Down
Test Duration: 15
Test Level: 63.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933954
Test Type: Draw Down
Test Duration: 60
Test Level: 88.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933955
Test Type: Recovery
Test Duration: 60
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933930
Test Type: Draw Down
Test Duration: 1
Test Level: 16.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933940
Test Type: Draw Down
Test Duration: 10
Test Level: 57.79999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933951
Test Type: Recovery
Test Duration: 40
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933932
Test Type: Draw Down
Test Duration: 2
Test Level: 25.200000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933941
Test Type: Recovery
Test Duration: 10
Test Level: 17.399999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933946
Test Type: Draw Down
Test Duration: 25
Test Level: 74.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933933
Test Type: Recovery
Test Duration: 2
Test Level: 53.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933936

Test Type: Draw Down
Test Duration: 4
Test Level: 37.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933938
Test Type: Draw Down
Test Duration: 5
Test Level: 41.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933939
Test Type: Recovery
Test Duration: 5
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933943
Test Type: Recovery
Test Duration: 15
Test Level: 10.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933935
Test Type: Recovery
Test Duration: 3
Test Level: 46.29999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933952
Test Type: Draw Down
Test Duration: 50
Test Level: 84.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933931
Test Type: Recovery
Test Duration: 1
Test Level: 62.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933944
Test Type: Draw Down
Test Duration: 20
Test Level: 71.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1006933934
Test Type:	Draw Down
Test Duration:	3
Test Level:	32.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933937
Test Type:	Recovery
Test Duration:	4
Test Level:	40.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933949
Test Type:	Recovery
Test Duration:	30
Test Level:	6.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933953
Test Type:	Recovery
Test Duration:	50
Test Level:	6.0
Test Level UOM:	ft

Water Details

Water ID:	1006933926
Layer:	3
Kind Code:	8
Kind:	Untested
Water Found Depth:	173.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1006933924
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	75.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1006933925
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	125.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006933923
Diameter:	6.0
Depth From:	56.0
Depth To:	183.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1006933922
Diameter:	9.75
Depth From:	0.0
Depth To:	56.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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42 | ***1 of 1*** | ***NW/196.1*** | ***80.9 / -1.02*** | ***706, 710, and 714 March Road Ottawa ON K2K 2R9*** | ***EHS***

Order No:	21092800629	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	01-OCT-21	***Search Radius (km):***	.25
Date Received:	28-SEP-21	***X:***	-75.9253545
Previous Site Name:		***Y:***	45.3508717
Lot/Building Size:			
Additional Info Ordered:			

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43 | ***1 of 1*** | ***NW/199.2*** | ***80.8 / -1.11*** | ***710 March Road Kanata ON K2K 2V9*** | ***EHS***

Order No:	20180725032	***Nearest Intersection:***	
Status:	C	***Municipality:***	Formerly in Township of March, now in City of Kanata, Regional Municipality of Ottawa-Carleton
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	31-JUL-18	***Search Radius (km):***	.25
Date Received:	25-JUL-18	***X:***	-75.925508
Previous Site Name:	977762 Ontario Lts. under deed of sale registered as Instrument Number 811083 on December 22, 1992.	***Y:***	45.350826
Lot/Building Size:	236,980 square feet (5.44 acres) commercial development site		
Additional Info Ordered:			

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44 | ***1 of 1*** | ***S/200.0*** | ***82.2 / 0.25*** | ***495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K*** | ***EHS***

Order No:	20190916105	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	19-SEP-19	***Search Radius (km):***	.25
Date Received:	16-SEP-19	***X:***	-75.920977
Previous Site Name:		***Y:***	45.343533
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	1 of 17	NNE/202.7	73.9 / -8.05	VOLEX CAPULUM INC. 360 TERRY FOX DR KANATA ON K2K 2P5	SCT

Established: 1984
Plant Size (ft²): 20000
Employment: 110

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Description: Steel Wire Drawing
SIC/NAICS Code: 331222

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Communication and Energy Wire and Cable Manufacturing
SIC/NAICS Code: 335920

Description: Wiring Device Manufacturing
SIC/NAICS Code: 335930

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	2 of 17	NNE/202.7	73.9 / -8.05	VOLEX CANADA INC. 360 Terry Fox Dr Kanata ON K2K 2P5	SCT

Established: 1984
Plant Size (ft²): 20000
Employment: 150

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	3 of 17	NNE/202.7	73.9 / -8.05	Sciemetric Instruments Inc 360 Terry Fox Dr Kanata ON K2K 2P5	SCT

Established: 9/1/1981
Plant Size (ft²):
Employment:

--Details--
Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	4 of 17	NNE/202.7	73.9 / -8.05	Kanata Research Park Corporation 360 Terry Fox Drive Ottawa ON	CA

Certificate #: 0835-5HTTNB
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	5 of 17	NNE/202.7	73.9 / -8.05	Filtran Limited 360 Terry Fox Dr Kanata ON K2K 2P5	SCT

Established: 01-SEP-69
Plant Size (ft²): 16000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Motor and Generator Manufacturing
SIC/NAICS Code: 335312

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	6 of 17	NNE/202.7	73.9 / -8.05	Emcon Emanation Control Ltd. 360 Terry Fox Dr Nepean ON K2E	SCT

Established: 01-JUL-85
Plant Size (ft²): 18000
Employment:

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Wood Office Furniture, including Custom Architectural Woodwork, Manufacturing
SIC/NAICS Code: 337213

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	7 of 17	NNE/202.7	73.9 / -8.05	Filtran Limited 360 Terry Fox Drive Ottawa CITY OF OTTAWA ON	EBR

EBR Registry No: 011-6639
Ministry Ref No: 8890-8V3N38
Notice Type: Instrument Decision
Notice Stage:
Notice Date: August 14, 2014
Proposal Date: June 25, 2012
Year: 2012
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Filtran Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 360 Terry Fox Drive, Ottawa Ontario, Canada K2K 2P5
Comment Period:
URL:

Site Location Details:

360 Terry Fox Drive Ottawa CITY OF OTTAWA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	8 of 17	NNE/202.7	73.9 / -8.05	Filtran Ltd 360 Terry Fox Dr. Kanata ON K2K 2P5	GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
45	9 of 17	NNE/202.7	73.9 / -8.05	Filtran Ltd 360 Terry Fox Dr. Kanata ON K2K 2P5	GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213

Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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45 **10 of 17** **NNE/202.7** **73.9 / -8.05** **Filtran Ltd**
360 Terry Fox Dr.
Kanata ON K2K 2P5
GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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45 **11 of 17** **NNE/202.7** **73.9 / -8.05** **Filtran Ltd**
360 Terry Fox Dr.
Kanata ON
GEN

Generator No: ON6864227
SIC Code: 335990
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:

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

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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45 **12 of 17** **NNE/202.7** **73.9 / -8.05** **Kanata Research Park Corporation** **ECA**
360 Terry Fox Drive
Ottawa ON K2K 2X3

Approval No: 0835-5HTTNB
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 360 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5108-5DXQRJ-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.92063
Latitude: 45.350746
Geometry X:
Geometry Y:

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45 **13 of 17** **NNE/202.7** **73.9 / -8.05** **Filtran Ltd** **GEN**
360 Terry Fox Dr.
Kanata ON K2K 2P5

Generator No: ON6864227
SIC Code: 335990
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Don Potvin
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-226-1626 Ext.243
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

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

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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45 | **14 of 17** | **NNE/202.7** | **73.9 / -8.05** | **Artaflex Ottawa Inc.**
360 Terry Fox Drive
Kanata ON K2K 2P5 | **GEN**

Generator No: ON3977448
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

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45 | **15 of 17** | **NNE/202.7** | **73.9 / -8.05** | **360 Terry Fox Drive**
Kanata ON K2K 2P5 | **EHS**

Order No: 20190305257
Status: C
Report Type: Standard Report
Report Date: 07-MAR-19
Date Received: 05-MAR-19
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.920166
Y: 45.351072

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45 | **16 of 17** | **NNE/202.7** | **73.9 / -8.05** | **Artaflex Ottawa Inc.**
360 Terry Fox Drive
Kanata ON K2K 2P5 | **GEN**

Generator No: ON3977448
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

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45 | **17 of 17** | **NNE/202.7** | **73.9 / -8.05** | **Artaflex Ottawa Inc.**
360 Terry Fox Drive
Kanata ON K2K 2P5 | **GEN**

Generator No: ON3977448
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

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

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

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46 ***1 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***NEWBRIDGE NETWORKS CORPORATION*** ***CA***
359 TERRY FOX DRIVE
KANATA CITY ON K2K 2E7

Certificate #: 8-4102-88-
Application Year: 88
Issue Date: 1/24/1990
Approval Type: Industrial air
Status: Approved in 1990
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CIRCUIT BOARD MANUF. EXHAUST
Contaminants:
Emission Control:

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46 ***2 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***ELCOMBE SYSTEMS LIMITED*** ***SCT***
359 TERRY FOX DR
KANATA ON K2K 2E7

Established: 1991
Plant Size (ft²): 0
Employment: 25

--Details--
Description: COMMUNICATIONS EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3669

Description: Other Communications Equipment Manufacturing
SIC/NAICS Code: 334290

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46 ***3 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***359 Terry Fox Drive*** ***CA***
Kanata ON K2K 2E7

Certificate #: 8-4102-88-906
Application Year: 01
Issue Date: 4/6/01
Approval Type: Industrial air
Status: Approved
Application Type: Revocation
Client Name: Newbridge Networks Corporation
Client Address: 600 March Road, P.O. Box 13600
Client City: Kanata
Client Postal Code: K2K 2E6
Project Description: Removal of exhaust six (6) exhaust fans venting facilities for manufacturing electronic circuits.
Contaminants:
Emission Control:

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46 ***4 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***NEWBRIDGE NETWORKS CORPORATION*** ***GEN***
359 TERRY FOX DRIVE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				KANATA ON K2K 2E7	

Generator No: ON1052000
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 88,89,90
PO Box No:
Country:

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

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
46	5 of 21	NE/207.8	75.9 / -6.07	NEWBRIDGE NETWORKS CORPORATION 28-523 359 TERRY FOX DRIVE KANATA ON K2K 2E7	GEN

Generator No: ON1052000
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 94,95,96
PO Box No:
Country:

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

Detail(s)

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

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
46	6 of 21	NE/207.8	75.9 / -6.07	359 Terry Fox Drive Ottawa ON	EHS

Order No: 20070213030
Status: C
Report Type: CAN - Complete Report
Report Date: 2/15/2007
Date Received: 2/13/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -75.919083
Y: 45.349895

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
46	7 of 21	NE/207.8	75.9 / -6.07	Smart Technologies Inc. 359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	EBR

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

EBR Registry No: IA05E1750
Ministry Ref No: 6235-6HCPAA
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 23, 2007
Proposal Date: November 15, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Smart Technologies Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 359 Terry Fox Drive, Ottawa Ontario, K2K 2E7
Comment Period:
URL:

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

Site Location Details:

359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa

46	8 of 21	NE/207.8	75.9 / -6.07	359 Terry Fox Drive Ottawa ON	EHS

Order No: 20080211010
Status: C
Report Type: Complete Report
Report Date: 2/20/2008
Date Received: 2/11/2008
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.919083
Y: 45.349895

46	9 of 21	NE/207.8	75.9 / -6.07	Smart Technologies Inc 359 Terry Fox Drive - North Kanata ON	GEN

Generator No: ON3214080
SIC Code: 334290
SIC Description: Other Communications Equipment Manufacturing
Approval Years: 06,07,08
PO Box No:
Country:

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

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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46 | **10 of 21** | **NE/207.8** | **75.9 / -6.07** | **Smart Technologies Inc.**
359 Terry Fox Drive
Ottawa ON | **CA**

Certificate #: 2247-6UXHQW
Application Year: 2007
Issue Date: 1/4/2007
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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46 | **11 of 21** | **NE/207.8** | **75.9 / -6.07** | **Kanata Research Park Corporation**
359 Terry Fox Drive
Ottawa ON | **CA**

Certificate #: 6748-5HTUE5
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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46 | **12 of 21** | **NE/207.8** | **75.9 / -6.07** | **Sciemetric Instruments Inc.**
359 Terry Fox Dr
Kanata ON K2K 2E7 | **SCT**

Established: 01-JUN-81
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing

SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

46 ***13 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Pleora Technologies Inc.***
359 Terry Fox Dr Unit 230
Kanata ON K2K 2E7 ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

---

46 ***14 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Smart Technologies Inc.***
359 Terry Fox Drive
Ottawa ON K2K 2E7 ***ECA***

Approval No:	2247-6UXHQW	***MOE District:***	Ottawa
Approval Date:	2007-01-04	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	-75.9184
Record Type:	ECA	***Latitude:***	45.349728
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Mississippi Valley	***Geometry Y:***	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Smart Technologies Inc.
Address: 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6235-6HCPAA-14.pdf
PDF Site Location:

---

46 ***15 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Kanata Research Park Corporation***
359 Terry Fox Drive
Ottawa ON K2K 2X3 ***ECA***

Approval No:	6748-5HTUE5	***MOE District:***	Ottawa
Approval Date:	2003-01-18	***City:***	
Status:	Approved	***Longitude:***	-75.9184
Record Type:	ECA	***Latitude:***	45.349728
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Mississippi Valley	***Geometry Y:***	

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2480-5DXNRZ-14.pdf

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

PDF Site Location:

---

46 ***16 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Electronic Distributors International Inc.*** ***GEN***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7

Generator No:	ON3467371	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2018	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders

---

46 ***17 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Public Health Agency of Canada - Kanata*** ***GEN***
359 Terry Fox Drive
Kanata ON K2K2E7

Generator No:	ON7174371	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2018	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	261 H
Waste Class Desc:	Pharmaceuticals
Waste Class:	261 L
Waste Class Desc:	Pharmaceuticals
Waste Class:	263 A
Waste Class Desc:	Misc. waste organic chemicals

---

46 ***18 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Electronic Distributors International Inc.*** ***GEN***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7

Generator No:	ON3467371	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Jul 2020	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	

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

Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

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

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

---

46 ***19 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Public Health Agency of Canada - Kanata NESS***
359 Terry Fox Drive
Kanata ON K2K2E7 ***GEN***

Generator No: ON7174371 ***Status:*** Registered
SIC Code: ***Co Admin:***
SIC Description: ***Choice of Contact:***
Approval Years: As of Jul 2020 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 261 H
Waste Class Desc: Pharmaceuticals

Waste Class: 261 L
Waste Class Desc: Pharmaceuticals

Waste Class: 263 A
Waste Class Desc: Misc. waste organic chemicals

---

46 ***20 of 21*** ***NE/207.8*** ***75.9 / -6.07*** ***Public Health Agency of Canada - Kanata NESS***
359 Terry Fox Drive
Kanata ON K2K2E7 ***GEN***

Generator No: ON7174371 ***Status:*** Registered
SIC Code: ***Co Admin:***
SIC Description: ***Choice of Contact:***
Approval Years: As of Nov 2021 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 263 A
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 261 H
Waste Class Desc: Pharmaceuticals

Waste Class: 261 L
Waste Class Desc: Pharmaceuticals

---

46 | ***21 of 21*** | ***NE/207.8*** | ***75.9 / -6.07*** | ***Electronic Distributors International Inc.***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7 | ***GEN***

Generator No: ON3467371
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

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

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 262 L
Waste Class Desc: Detergents and soaps

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

---

47 | ***1 of 14*** | ***ESE/209.2*** | ***79.0 / -2.94*** | ***SR TELECOM***
425 LEGGET DR
KANATA ON K2K 2W2 | ***SCT***

Established: 1986
Plant Size (ft²): 0
Employment: 200

--Details--
Description: RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT
SIC/NAICS Code: 3663

---

47 | ***2 of 14*** | ***ESE/209.2*** | ***79.0 / -2.94*** | ***425 Legget Dr***
Kanata ON K2K 2W2 | ***EHS***

Order No: 20010711004
Status: C

Nearest Intersection:
Municipality:

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

Report Type:	Complete Report	**Client Prov/State:**	ON
Report Date:	7/16/01	**Search Radius (km):**	0.25
Date Received:	7/11/01	**X:**	-75.914926
Previous Site Name:		**Y:**	45.344584
Lot/Building Size:			
Additional Info Ordered:			

---

47 **3 of 14** **ESE/209.2** **79.0 / -2.94**

SR TELECOM INC.
425 LEGGET DRIVE
KANATA ON K2K 2W2

GEN

Generator No:	ON2171800	**Status:**	
SIC Code:	3351	**Co Admin:**	
SIC Description:	TELECOMMUNICATIONS	**Choice of Contact:**	
Approval Years:	96,97,98,99	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 **4 of 14** **ESE/209.2** **79.0 / -2.94**

C-MAC KANATA INC.
425 LEGGET DRIVE
KANATA ON K2K 2W2

GEN

Generator No:	ON2171800	**Status:**	
SIC Code:	3351	**Co Admin:**	
SIC Description:	TELECOMMUNICATIONS	**Choice of Contact:**	
Approval Years:	00,01	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 **5 of 14** **ESE/209.2** **79.0 / -2.94**

C-MAC KANATA INC.
425 LEGETT DRIVE
KANATA ON K2K 2W2

GEN

Generator No:	ON2171800	**Status:**	
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	02	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 | **6 of 14** | **ESE/209.2** | **79.0 / -2.94** | **C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY**
425 LEGETT DRIVE
KANATA ON | **GEN**

Generator No: ON2171800
SIC Code: 334110
SIC Description: Computer & Peripheral Equipment Mfg.
Approval Years: 03,04,05,06
PO Box No:
Country:

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

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148

Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

47 | **7 of 14** | **ESE/209.2** | **79.0 / -2.94** | **Solectron EMS Canada**
425 Legget Dr
Kanata ON K2K 2W2 | **SCT**

Established: 1977
Plant Size (ft²):
Employment: 300

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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47 | **8 of 14** | **ESE/209.2** | **79.0 / -2.94** | **425 Legget Drive**
Ottawa ON | **EHS**

Order No: 20120213010
Status: C
Report Type: Custom Report
Report Date: 2/17/2012 10:02:42 AM
Date Received: 2/13/2012 10:00:24 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.915606
Y: 45.345057

---

47 | **9 of 14** | **ESE/209.2** | **79.0 / -2.94** | **AVAYA CANADA CORP**
425 LEGGET DRIVE
OTTAWA ON K2K 2W2 | **EASR**

Approval No: R-002-4150428271
Status: REGISTERED
Date: 2012-08-27
Record Type: EASR
Link Source: MOFA
Project Type: Standby Power System
Full Address:
Approval Type: EASR-Standby Power System
Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=1426
PDF URL:
PDF Site Location:

SWP Area Name: Mississippi Valley
MOE District: Ottawa
Municipality: OTTAWA
Latitude: 45.345882
Longitude: -75.91489
Geometry X:
Geometry Y:

---

47 | **10 of 14** | **ESE/209.2** | **79.0 / -2.94** | **425 Legget Drive Property GP Inc.**
425 Legget Dr
Ottawa ON | **ECA**

Approval No: 6998-95YSRC
Approval Date: 2013-03-21
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS

MOE District: Ottawa
City:
Longitude: -75.91489
Latitude: 45.345882
Geometry X:
Geometry Y:

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

Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 425 Legget Drive Property GP Inc.
Address: 425 Legget Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2476-8VQN7M-14.pdf
PDF Site Location:

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47 | 11 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

---

47 | 12 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

---

47 | 13 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

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47 | 14 of 14 | ESE/209.2 | 79.0 / -2.94 | 425 Legget Drive Kanata ON K2K 3C9 | EHS

Order No: 20292800081
Status: C
Report Type: Standard Report
Report Date: 01-OCT-20
Date Received: 28-SEP-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9150514
Y: 45.3456468

---

48 | 1 of 1 | W/216.8 | 85.8 / 3.86 | ON | BORE

Borehole ID:	609784	***Inclin FLG:***	No
OGF ID:	215511399	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:	MAR-1953	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.346969
Total Depth m:	37.2	***Longitude DD:***	-75.925596
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	427491
Drill Method:		***Northing:***	5021912
Orig Ground Elev m:	85.3	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	82.3		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218384078	***Mat Consistency:***	
Top Depth:	14.9	***Material Moisture:***	
Bottom Depth:	37.2	***Material Texture:***	
Material Color:	Black	***Non Geo Mat Type:***	
Material 1:	Sandstone	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SANDSTONE. 00120K. GRANITE. GREY. GRANITE. BLACK. 003050. BEDROCK. SEISMIC VELOCITY = **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218384077	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	14.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Clay	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	CLAY.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:		***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02292 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator

Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

49 | **1 of 1** | **W/216.8** | **85.8 / 3.86** | **lot 9 con 3 ON** | **WWIS**

Well ID: 1503346
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 4/20/1953
Selected Flag: True
Abandonment Rec:
Contractor: 1802
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: MARCH TOWNSHIP
Site Info:
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503346.pdf

Additional Detail(s) (Map)

Well Completed Date: 1953/03/06
Year Completed: 1953
Depth (m): 37.1856
Latitude: 45.3469681620258
Longitude: -75.9255952743531
Path: 150\1503346.pdf

Bore Hole Information

Bore Hole ID: 10025389
DP2BR: 49.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 06-Mar-1953 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 82.334884
Elevrc:
Zone: 18
East83: 427490.60
North83: 5021912.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 930996633
Layer: 2

Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 49.0
Formation End Depth: 122.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996632
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 49.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503346
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573959
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043531
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 122
Casing Diameter: 3
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043530
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:
Depth To: 49
Casing Diameter: 3
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503346
Pump Set At:
Static Level: 14.0
Final Level After Pumping: 30.0
Recommended Pump Depth:
Pumping Rate: 2.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933456240
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120.0
Water Found Depth UOM: ft

---

50 ***1 of 2*** ***SSW/217.9*** ***83.9 / 1.98*** ***COLONNADE DEVELOPMENT INC.***
60 HINES RD., PH. 1, SWM
KANATA ON K2K 2M5 ***CA***

Certificate #: 3-1606-98-
Application Year: 98
Issue Date: 10/26/1998
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

50 ***2 of 2*** ***SSW/217.9*** ***83.9 / 1.98*** ***COLONNADE DEVELOPMENT INC.***
SWM-60 HINES RD.PH.2
KANATA ON K2K 2M5 ***CA***

Certificate #: 3-1697-98-
Application Year: 98
Issue Date: 11/5/1998
Approval Type: Municipal sewage
Status: Cancelled
Application Type:

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

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

---

51 | ***1 of 1*** | ***ESE/219.5*** | ***79.0 / -2.97*** | ***370-450 Huntmar Drive Ottawa ON*** | ***EHS***

Order No:	21091500316	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	RSC Report - Quote	***Client Prov/State:***	ON
Report Date:	20-SEP-21	***Search Radius (km):***	.3
Date Received:	15-SEP-21	***X:***	-75.91494054
Previous Site Name:		***Y:***	45.34558141
Lot/Building Size:			
Additional Info Ordered:			

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52 | ***1 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED CANADA INC. 3001 SOLANDT ROAD KANATA CITY ON K2K 2M8*** | ***CA***

Certificate #:	8-4021-94-
Application Year:	94
Issue Date:	4/14/1994
Approval Type:	Industrial air
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	DF-6218 DEVILBISS PAINT SPRAY BOOTH
Contaminants:	
Emission Control:	

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52 | ***2 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED CANADA INC. 3001 SOLANDT ROAD KANATA CITY ON K2K 2M8*** | ***CA***

Certificate #:	8-4029-94-
Application Year:	94
Issue Date:	4/21/1994
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	EXHAUST FOR SPRAY BOOTH, COATING PROCESS
Contaminants:	Xylene, Ethyl Benzene, Toluene(Pentyl Methane)(Methyl Benzene), Methyl Ethyl Ketone (Butanone), Isopropyl Alcohol, Methyl Chloroform
Emission Control:	Panel Filter

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52 | ***3 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED MARTIN CANADA INC 3001 SOLANDT RD*** | ***SCT***

KANATA ON K2K 2M8

Established: 1988
Plant Size (ft²): 0
Employment: 300

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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52 | ***4 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***Lockheed Martin Canada Inc.***
3001 Solandt Rd
Kanata ON K2K 2M8 | ***SCT***

Established: 01-AUG-88
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

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52 | ***5 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***3001 Solandt Road***
Kanata ON K2K 2M8 | ***CA***

Certificate #: 6668-4J6PK6
Application Year: 00
Issue Date: 5/12/00
Approval Type: Industrial air
Status: Approved
Application Type: Amended CofA
Client Name: Lockheed Martin Canada Inc.
Client Address: 3001 Solandt Road
Client City: Kanata
Client Postal Code: K2K 2M8
Project Description: This is an application for an amendment to Air Certificate of Approval to add one conformal coater, one oven and one drip coater to be used between 2 - 3 hours per week..
Contaminants:
Emission Control:

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52 | ***6 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 | ***GEN***

Generator No: ON0476102
SIC Code: 3359
SIC Description: OTHER COMMUN. & ELE.
Approval Years: 95,96,97,98,99,00,01,02,03,04,05,06,07,08
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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52 ***7 of 21*** ***SE/235.2*** ***79.8 / -2.08*** ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 ***GEN***

Generator No: ON0476102 ***Status:***
SIC Code: 336410 ***Co Admin:***
SIC Description: Aerospace Product and Parts Manufacturing ***Choice of Contact:***
Approval Years: 2009 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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52 **8 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.**
3001 Solandt Road
Ottawa ON K2K 2M8
EBR

EBR Registry No: 011-8066
Ministry Ref No: 0853-93TR59
Notice Type: Instrument Proposal
Notice Stage:
Notice Date:
Proposal Date: January 28, 2013
Year: 2013
Instrument Type: (EPA Part II.1) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name:
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3001 Solandt Road Ottawa Ontario Canada K2K 2M8
Comment Period:
URL:

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

Site Location Details:

3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA

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52 **9 of 21** **SE/235.2** **79.8 / -2.08** **LOCKHEED MARTIN CANADA**
3001 SOLANDT ROAD
KANATA ON K2K 2M8
GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2010
PO Box No:
Country:

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

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Desc: AMINES

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52 ***10 of 21*** ***SE/235.2*** ***79.8 / -2.08*** ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 ***GEN***

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2011
PO Box No:
Country:

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

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 121

Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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52 | ***11 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***MORGUARD INVESTMENTS LTD.***
3001 SOLANDT STREET
KANATA ON | ***GEN***

Generator No: ON9884765
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2012
PO Box No:
Country:

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

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52 | ***12 of 21*** | ***SE/235.2*** | ***79.8 / -2.08*** | ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 | ***GEN***

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2012
PO Box No:
Country:

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

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 112

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

Waste Class Desc: ACID WASTE - HEAVY METALS

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52 **13 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.**
3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA
ON **EBR**

EBR Registry No: 011-8066
Ministry Ref No: 0853-93TR59
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 11, 2014
Proposal Date: January 28, 2013
Year: 2013
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lockheed Martin Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3001 Solandt Road, Ottawa Ontario, Canada K2K 2M8
Comment Period:
URL:

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

Site Location Details:

3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA

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52 **14 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.**
3001 Solandt Road
Ottawa ON **ECA**

Approval No: 3445-9FMN4B
Approval Date: 4/2/14
Status: Approved
Record Type:
Link Source:
SWP Area Name:
Approval Type:
Project Type: Air/Noise
Business Name: Lockheed Martin Canada Inc.
Address:
Full Address: 3001 Solandt Road Ottawa, Ontario
Full PDF Link:
PDF Site Location:

MOE District:
City: Ottawa
Longitude: -75.916666666666714036182384006679058074951171875
Latitude: 45.344166666666662877105409279465675354003906 25
Geometry X:
Geometry Y:

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52 **15 of 21** **SE/235.2** **79.8 / -2.08** **3001 Solandt Road**
Kanata ON **EHS**

Order No: 20130513003
Status: C
Report Type: RSC Report (Urban)
Report Date: 21-MAY-13
Date Received: 13-MAY-13
Previous Site Name: unknown
Lot/Building Size: 5.13 acres
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos

Nearest Intersection:
Municipality: Kanata
Client Prov/State: ON
Search Radius (km): .3
X: -75.916515
Y: 45.344055

52 **16 of 21** **SE/235.2** **79.8 / -2.08** **LOCKHEED MARTIN CANADA** **GEN**
3001 SOLANDT ROAD
KANATA ON

Generator No:	ON0476102	**Status:**	
SIC Code:	336410	**Co Admin:**	
SIC Description:	AEROSPACE PRODUCT AND PARTS MANUFACTURING	**Choice of Contact:**	
Approval Years:	2013	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	253
Waste Class Desc:	EMULSIFIED OILS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS

52 **17 of 21** **SE/235.2** **79.8 / -2.08** **Lockheed Martin Canada Inc.** **ECA**
3001 Solandt Rd
Ottawa ON K2K 2M8

Approval No:	3445-9FMN4B	**MOE District:**	Ottawa
Approval Date:	2014-04-02	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.91657
Record Type:	ECA	**Latitude:**	45.34411
Link Source:	IDS	**Geometry X:**	

SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0853-93TR59-14.pdf
PDF Site Location:
Geometry Y:

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52 **18 of 21** **SE/235.2** **79.8 / -2.08**

Lockheed Martin Canada Inc.
3001 Solandt Road
Kanata ON K2K 2M8

ECA

Approval No: 6668-4J6PK6
Approval Date: 2000-05-12
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3170-4J4J43-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:

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52 **19 of 21** **SE/235.2** **79.8 / -2.08**

Lockheed Martin Canada Inc.
3001 Solandt Rd
Ottawa ON K2K 2M8

ECA

Approval No: 0118-78PQ7X
Approval Date: 2007-11-07
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0986-77LRAX-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:

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52 **20 of 21** **SE/235.2** **79.8 / -2.08**

LOCKHEED MARTIN CANADA
3001 SOLANDT ROAD
KANATA ON K2K 2M8

GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: AEROSPACE PRODUCT AND PARTS MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Scott D Forsyth
Choice of Contact: CO_ADMIN
Phone No Admin: 613-599-3270 Ext.3887
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 232

Waste Class Desc: POLYMERIC RESINS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

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52 | **21 of 21** | **SE/235.2** | **79.8 / -2.08** | **Morguard Investments**
3001 Solandt Rd
Kanata ON K2K 3M8 | **GEN**

Generator No: ON3300096
SIC Code:
SIC Description:
Approval Years: As of Dec 2017
PO Box No:
Country: Canada

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

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

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53 | **1 of 1** | **W/243.3** | **86.9 / 4.95** | **O HINES DRIVE**
KANATA ON | **WWIS**

Well ID: 7218163
Construction Date:
Primary Water Use: Monitoring and Test Hole

Data Entry Status:
Data Src:
Date Received: 3/20/2014

Sec. Water Use:	0	**Selected Flag:**	True
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7241
Casing Material:		**Form Version:**	7
Audit No:	Z178057	**Owner:**	
Tag:	A156413	**Street Name:**	O HINES DRIVE
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	MARCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/721\7218163.pdf

Additional Detail(s) (Map)

Well Completed Date:	2014/02/14
Year Completed:	2014
Depth (m):	9.45
Latitude:	45.346741750083
Longitude:	-75.9257651900175
Path:	721\7218163.pdf

Bore Hole Information

Bore Hole ID:	1004724220	**Elevation:**	82.578880
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427477.00
Code OB Desc:		**North83:**	5021887.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	14-Feb-2014 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005093643
Layer:	4
Color:	6
General Color:	BROWN
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	2.3499999046325684
Formation End Depth:	8.529999732971191
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093644
Layer:	5
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	8.529999732971191
Formation End Depth:	9.449999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093641
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.3100000023841858
Formation End Depth:	2.130000114440918
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093642
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	2.130000114440918
Formation End Depth:	2.3499999046325684
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005093640
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	

Mat2 Desc:
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 0.3100000023841858
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005093653
Layer: 1
Plug From: 0
Plug To: 0.310000002384186
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005093654
Layer: 2
Plug From: 0.310000002384186
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1005093655
Layer: 3
Plug From:
Plug To: 9.44999980926514
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1005093652
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1005093639
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005093648
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 6.40000009536743
Casing Diameter: 4.03000020980835
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID:	1005093649
Layer:	1
Slot:	10
Screen Top Depth:	6.40000009536743
Screen End Depth:	9.44999980926514
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.82000017166138

Water Details

Water ID:	1005093647
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1005093646
Diameter:	7.619999885559082
Depth From:	3.0999999046325684
Depth To:	9.449999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1005093645
Diameter:	11.430000305175781
Depth From:	0.0
Depth To:	3.0999999046325684
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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54 ***1 of 9*** ***SSE/244.3*** ***80.8 / -1.14*** ***495 March Road Kanata ON K2K 3G1*** ***CA***

Certificate #:	5602-4STJ67
Application Year:	01
Issue Date:	1/29/01
Approval Type:	Industrial air
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	E-Cruiter.com Inc.
Client Address:	495 March Road
Client City:	Kanata
Client Postal Code:	K2K 3G1
Project Description:	This application is for the installation of one (1) standby emergency diesel generator
Contaminants:	
Emission Control:	Enclosure

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54 ***2 of 9*** ***SSE/244.3*** ***80.8 / -1.14*** ***Dinmar Consulting Inc. 495 March Rd Suite 400 Kanata ON K2K 3G1*** ***SCT***

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

Established:
Plant Size (ft²):
Employment: 65

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

54	3 of 9	SSE/244.3	80.8 / -1.14	**Halogen Software** **495 March Rd Suite 500** **Ottawa ON K2K 3G1**	SCT

Established: 2001
Plant Size (ft²):
Employment: 80

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

54	4 of 9	SSE/244.3	80.8 / -1.14	**Picarro Canada Inc.** **495 March Road, Suite 100** **Ottawa ON**	CA

Certificate #: 2879-5L425B
Application Year: 2003
Issue Date: 4/5/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

54	5 of 9	SSE/244.3	80.8 / -1.14	**OneChip Photonics Inc.** **495 March Rd Suite 200** **Kanata ON K2K 3G1**	SCT

Established: 01-AUG-05
Plant Size (ft²): 30000
Employment:

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
54	6 of 9	SSE/244.3	80.8 / -1.14	Halogen Software 495 March Rd Suite 500 Kanata ON K2K 3G1	SCT

Established: 01-SEP-01
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

54	7 of 9	SSE/244.3	80.8 / -1.14	495 March Rd Ottawa ON K2K3G1	EHS

Order No: 20140130001
Status: C
Report Type: Custom Report
Report Date: 05-FEB-14
Date Received: 30-JAN-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.920838
Y: 45.343452

54	8 of 9	SSE/244.3	80.8 / -1.14	Picarro Canada Inc. 495 March Road, Suite 100 Ottawa ON K2K 3G1	ECA

Approval No: 2879-5L425B
Approval Date: 2003-04-05
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Picarro Canada Inc.
Address: 495 March Road, Suite 100
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2565-5G5SFJ-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.9194
Latitude: 45.34321
Geometry X:
Geometry Y:

54	9 of 9	SSE/244.3	80.8 / -1.14	E-Cruiter.com Inc. 495 March Road Kanata ON K2K 3G1	ECA

Approval No: 5602-4STJ67
Approval Date: 2001-01-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: E-Cruiter.com Inc.
Address: 495 March Road
Full Address:
MOE District: Ottawa
City:
Longitude: -75.9194
Latitude: 45.34321
Geometry X:
Geometry Y:

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8153-4R9MS8-14.pdf
PDF Site Location:

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55 **1 of 18** **WNW/247.1** **80.9 / -1.05** **964299 ONTARIO INC O/A ROB'S SHELL** **FSTH**
720 MARCH RD
KANATA ON K2K 2R9

License Issue Date: 1/11/2002
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Split Serve

--Details--
Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 40000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 40000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 40000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 25000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

---

55 **2 of 18** **WNW/247.1** **80.9 / -1.05** **21777 SHELL GAS STATION 720 MARCH ROAD,** **SPL**
KANATA, ON K2L 1A1<UNOFFICIAL>
Ottawa ON K2L 1A1

Ref No: 3784-5K634B
Site No:
Incident Dt: 2/26/2003
Year:
Incident Cause:
Incident Event:
Contaminant Code: 12
Contaminant Name: GASOLINE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Human Health/Safety
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/26/2003
Dt Document Closed:

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

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

Incident Reason: **Source Type:**
Site Name: 21777 SHELL GAS STATION 720 MARCH ROAD, KANATA, ON K2L 1A1<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Shell - spill of 25L of gasoline to ground
Contaminant Qty: 25 L

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55 **3 of 18** **WNW/247.1** **80.9 / -1.05** **964299 ONTARIO INC O/A ROB'S SHELL**
720 MARCH RD
KANATA ON K2K 2R9
FSTH

License Issue Date: 1/11/2002
Tank Status: Pending Renewal
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Split Serve

--Details--
Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2000
Corrosion Protection:
Capacity: 25000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

---

55 **4 of 18** **WNW/247.1** **80.9 / -1.05** **Shell Canada OP Inc. and Shell Canada Products Limited**
720 March Road
Ottawa ON
CA

Certificate #: 6201-5R2QCA
Application Year: 2003
Issue Date: 10/9/2003
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	5 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA ON K2K 2R9	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10281064	***Expired Date:***	12/11/1999
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:		***Facility Location:***	
Instance Type:	FS Facility	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:			
Original Source:	EXP		
Record Date:	Up to May 2013		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	6 of 18	WNW/247.1	80.9 / -1.05	2643320 ONTARIO INC. 720 MARCH RD KANATA K2K 2R9 ON CA ON	FST

Instance No:	11625653	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	8/27/2009 5:35:17 PM	***Fuel Type3:***	NULL
Install Year:	2000	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	35000	***Num Underground:***	
Tank Material:	Fiberglass (FRP)	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 2643320 ONTARIO INC.
Item: FS LIQUID FUEL TANK

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55 ***7 of 18*** ***WNW/247.1*** ***80.9 / -1.05*** ***2643320 ONTARIO INC.***
720 MARCH RD KANATA K2K 2R9 ON CA
ON ***FST***

Instance No:	11625672	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	8/27/2009 5:35:44 PM	***Fuel Type3:***	NULL
Install Year:	2000	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	35000	***Num Underground:***	
Tank Material:	Fiberglass (FRP)	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: 2643320 ONTARIO INC.
Item: FS LIQUID FUEL TANK

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55 ***8 of 18*** ***WNW/247.1*** ***80.9 / -1.05*** ***2643320 ONTARIO INC.***
720 MARCH RD KANATA K2K 2R9 ON CA
ON ***FST***

Instance No:	11625723	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Diesel
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	8/27/2009 5:37:19 PM	***Fuel Type3:***	NULL
Install Year:	2000	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	

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

Capacity:	25000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	2643320 ONTARIO INC.
Item:	FS LIQUID FUEL TANK

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55 | ***9 of 18*** | ***WNW/247.1*** | ***80.9 / -1.05*** | ***2643320 ONTARIO INC.***
720 MARCH RD KANATA K2K 2R9 ON CA
ON | ***FST***

Instance No:	11625690	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Double Wall UST	**Fuel Type2:**	NULL
Install Date:	8/27/2009 5:36:49 PM	**Fuel Type3:**	NULL
Install Year:	2000	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	35000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: 2643320 ONTARIO INC.

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	2643320 ONTARIO INC.
Item:	FS LIQUID FUEL TANK

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55 | ***10 of 18*** | ***WNW/247.1*** | ***80.9 / -1.05*** | ***SUNCOR ENERGY PRODUCTS INC***
720 MARCH RD KANATA K2K 2R9 ON CA
ON | ***DTNK***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	11 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	DTNK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	12 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	DTNK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	13 of 18	WNW/247.1	80.9 / -1.05	Shell Station<UNOFFICIAL> 720 March Rd Ottawa ON	SPL

Ref No:	3316-9QLR3A	**Discharger Report:**	
Site No:	2711-5LDKRB	**Material Group:**	
Incident Dt:	2014/11/06	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Leak/Break	**Sector Type:**	Service Station
Incident Event:		**Agency Involved:**	
Contaminant Code:	12	**Nearest Watercourse:**	
Contaminant Name:	GASOLINE	**Site Address:**	720 March Rd
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	NA
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Ottawa
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	2014/11/06	**Site Map Datum:**	NA
Dt Document Closed:	2014/11/13	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Operator/Human Error	**Source Type:**	
Site Name:	720 March Road		
Site County/District:			
Site Geo Ref Meth:	NA		
Incident Summary:	Shell Station, 15 L deisel to pavement, and 1 c/b		
Contaminant Qty:	15 L		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	14 of 18	WNW/247.1	80.9 / -1.05	Shell Canada OP Inc. and Shell Canada Products Limited 720 March Road Ottawa ON M2N 6Y2	ECA

Approval No:	6201-5R2QCA	**MOE District:**	Ottawa
Approval Date:	2003-10-09	**City:**	
Status:	Approved	**Longitude:**	-75.92642
Record Type:	ECA	**Latitude:**	45.351067
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Shell Canada OP Inc. and Shell Canada Products Limited		
Address:	720 March Road		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7903-5LDKPW-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	15 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA	FST

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

Instance No:	11597552	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	12/10/1999	**Fuel Type3:**	NULL
Install Year:	1999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name:	SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

55	16 of 18	WNW/247.1	80.9 / -1.05	720 MARCH RD KANATA ON K2K 2R9	FST

Instance No:	64667332	**Manufacturer:**	
Status:	Active	**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS GASOLINE STATION - SELF SERVE	**Unit of Measure:**	
Item Description:		**Fuel Type:**	
Tank Type:		**Fuel Type2:**	
Install Date:		**Fuel Type3:**	
Install Year:		**Piping Steel:**	0
Years in Service:		**Piping Galvanized:**	0
Model:		**Tanks Single Wall St:**	0
Description:		**Piping Underground:**	3
Capacity:		**Num Underground:**	4
Tank Material:		**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:			
Parent Facility Type:			
Facility Location:			
Device Installed Location:			

55	17 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	FST

Instance No:	11597526	**Manufacturer:**	

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

Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	12/10/1999	**Fuel Type3:**	NULL
Install Year:	1999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	18 of 18	WNW/247.1	80.9 / -1.05	SUNCOR ENERGY PRODUCTS INC 720 MARCH RD KANATA K2K 2R9 ON CA ON	FST

Instance No:	11597541	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	12/10/1999	**Fuel Type3:**	NULL
Install Year:	1999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	50000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	720 MARCH RD KANATA K2K 2R9 ON CA		

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:

Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

Unplottable Summary

Total: 105 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 8/11 Con 4/5	Kanata ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Colonnade Development Incorporated		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	
CA	Minto Developments Inc.		Ottawa ON	

CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Kanata Research Park Corporation	Ottawa ON
CA	Suncor Energy Products Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	D.I.R. Investments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Colonnade Development Incorporated	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON
CA	Minto Developments Inc.	Ottawa ON

CA	Minto Developments Inc.		Ottawa ON
CA	Minto Developments Inc.		Ottawa ON
CA	Minto Developments Inc.		Ottawa ON
CA		Terry Fox Drive	Kanata ON
CA	Briarridge Sewage Pumping Station	Lot 9, Concession 4	Ottawa ON
CA		Kanata Research Park	Kanata ON
CA		Kanata Research Park	Kanata ON
CA		Kanata Research Park	Kanata ON
CA		Kanata Research Park	Kanata ON
CA	Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road	Terry Fox Drive	Ottawa ON
CA	Kanata Research Park	Solandt Road	Ottawa ON
CA	CANADIAN TIRE REAL ESTATE LTD., GILPAUL	TERRY FOX DR.,GAS BAR SWM FAC.	KANATA CITY ON
CA	MOSAID TECHNOLOGIES INCORPORATED	PT.LOT 8/CON.3,HINES RD., SWM	KANATA CITY ON
CA	COLONNADE DEVELOPMENT INC.	SOLANDT RD., PT.8, BLK. 20,SWM	KANATA CITY ON
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON
CA	KANATA RESEARCH PARK CORP.	TERRY FOX DR.,CROSS KEY, SWM	KANATA CITY ON
CA	KANATA RESEARCH PARK CORP.	PT.LOTS 8&9/C-4, HELMSDALE,SWM	KANATA ON
CA	KANATA RESEARCH PARK CORP.	PT.LOT 9/CON.4,NEWBRIDGE (SWM)	KANATA CITY ON
CA	COLONNADE DEVELOPMENT INC.	SOLANDT ROAD EXTENSION	KANATA CITY ON
CA	KANATA RESEARCH PARK CORPORATION	TERRY FOX DR. KANATA N. BUS. P	KANATA CITY ON
CA	954198 ONTARIO INC.	ST. #1/MCKINLEY DR.,PLAN 4M755	KANATA CITY ON
CA	GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D	M.T.O. ACCES RD/TERRY FOX DR.	KANATA CITY ON

CA	WILLIAM S. BURNSIDE CANADA LTD.	HINES RD.	KANATA CITY ON	
CA	TAYLOR DEVELOPMENTS	SHOPPING CEN., TERRY FOX DRIVE	KANATA CITY ON	
CA	KANATA CITY	LEGGET DRIVE	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY	FUTURE TERRY FOX DR.	KANATA CITY ON	
CA	954198 ONTARIO INC.	MCKINLEY DR.N./PLAN 4M-755	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA LTD.-PT.LOT 9	HINES RD./ON-SITE S-WAT. MGT.	KANATA CITY ON	
CA	KANATA CITY - TERRY FOX DR.	TERRY FOX DR/M.T.O.ACCESS RD.	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORP./CROSS KEYS	STORMWATER MANAGEMENT FACILITY	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA LTD.	STORMW. DET. FAC. HINES RD.	KANATA CITY ON	
CA	KANATA CITY - EAST MARCH TRUNK SEWERS	PROP.EASMT.-LEGGET DRIVE	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA	HINES RD.	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY FORCEMAIN	FUTURE TERRY FOX DR. P.S.	KANATA CITY ON	
CA	KANATA CITY	TERRY FOX DRIVE	KANATA CITY ON	
CA	KANATA CITY KANATA N. BUSINESS PARK	TERRY FOX DRIVE	KANATA CITY ON	
CONV	SHELL CANADA PRODUCTS LIMITED		DON MILLS ON	
ECA	Minto Developments Inc.		Ottawa ON	K1R 7Y2
ECA	Shell Canada Limited	Nepean	Ottawa ON	M2N 6Y2
ECA	Minto Developments Inc.		Ottawa ON	K1R 7Y2
ECA	City of Ottawa	Terry Fox Dr	Ottawa ON	K1P 1J1
LIMO	Nepean Concession 3 Dump	Ottawa	ON	
LIMO	Cumberland Landfill Fernand Leduc City of Ottawa	Lot 9, Concession 3 Ottawa	ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean	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	Lots 6 7 and 8, Concession 4, City of Ottawa CITY OF OTTAWA	ON
SPL	PUC	TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD.	KANATA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	SERVICE STATION	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	SHELL CANADA PRODUCTS LTD.	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	Nortel Networks<UNOFFICIAL>	Nortel Networks<UNOFFICIAL>	Ottawa ON
SPL	Van's Industrial & Specialty Coatings<UNOFFICIAL>	Terry Fox Drive, Nepean	Ottawa ON
SPL	City of Ottawa	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>	Ottawa ON
SPL	Shell Canada Products Limited	Shell Canada	Ottawa ON
SPL	OTTAWA-CARLETON, REG. MUN.	LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE	KANATA CITY ON
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON
WWIS		lot 8	ON

Unplottable Report

Site:
Lot 8/11 Con 4/5 Kanata ON

Database: ***AAGR***

Type:
Region/County: Ottawa-Carleton
Township: Kanata
Concession: 4/5
Lot: 8/11
Size (ha):
Landuse:
Comments:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1530-6QQL2J
Application Year: 2006
Issue Date: 7/14/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 8733-8J9RH6
Application Year: 2011
Issue Date: 7/28/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 9152-65XHVP
Application Year: 2004
Issue Date: 10/21/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:

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

Site: ***Colonnade Development Incorporated***
Ottawa ON

Database: ***CA***

Certificate #: 8748-7DGQCH
Application Year: 2008
Issue Date: 4/25/2008
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 8418-76APWL
Application Year: 2007
Issue Date: 8/22/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 8133-65GMW9
Application Year: 2004
Issue Date: 10/6/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7996-5Q7RGN
Application Year: 2003
Issue Date: 8/12/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7788-6XDSAP
Application Year: 2007
Issue Date: 1/19/2007
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7677-7DPNN3
Application Year: 2008
Issue Date: 5/1/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 7355-6M4TMP
Application Year: 2006
Issue Date: 2/20/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 7163-5SYQ3M
Application Year: 2003
Issue Date: 11/14/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 7043-6P2REB
Application Year: 2006
Issue Date: 4/20/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 6733-5NSKZ9
Application Year: 2003
Issue Date: 6/23/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database:
CA

Certificate #: 6380-6JGQ7B
Application Year: 2005
Issue Date: 12/29/2005
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:

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

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 6002-7DAKG9
Application Year: 2008
Issue Date: 4/2/2008
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 5963-766KNS
Application Year: 2007
Issue Date: 8/21/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 5840-6NRNJD
Application Year: 2006
Issue Date: 5/4/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 5109-66JPRR

Application Year: 2004
Issue Date: 11/9/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 4309-6VTJMR
Application Year: 2006
Issue Date: 12/1/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 4208-6J7J5T
Application Year: 2005
Issue Date: 11/17/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3934-5QBL78
Application Year: 2003
Issue Date: 9/18/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3403-5MAJ6D
Application Year: 2003
Issue Date: 5/9/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3360-7H3RCS
Application Year: 2008
Issue Date: 8/8/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 3324-5PXLMV
Application Year: 2003
Issue Date: 7/31/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2814-68ZN2P
Application Year: 2005
Issue Date: 2/2/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2803-6XKQB2
Application Year: 2007
Issue Date: 1/25/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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

Database: ***CA***

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

Site: ***Suncor Energy Products Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2751-78XLN5
Application Year: 2007
Issue Date: 11/19/2007
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2539-66USUQ
Application Year: 2004

Issue Date: 11/25/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2530-6JULSK
Application Year: 2005
Issue Date: 12/16/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***D.I.R. Investments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2390-6NBQN4
Application Year: 2006
Issue Date: 4/3/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 2206-5J5J5M
Application Year: 2003
Issue Date: 1/27/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1930-5HZMDY
Application Year: 2003
Issue Date: 1/21/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1814-73VJMC
Application Year: 2007
Issue Date: 6/7/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1688-5ZCP3J
Application Year: 2004
Issue Date: 5/28/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1462-76TNSQ
Application Year: 2007
Issue Date: 9/11/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

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

Site: ***Colonnade Development Incorporated***
Ottawa ON

Database: ***CA***

Certificate #: 1314-7Z8TPU
Application Year: 2010
Issue Date: 1/4/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1305-5PNSMF
Application Year: 2003
Issue Date: 7/22/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1297-6SPJ46
Application Year: 2006
Issue Date: 8/17/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1168-67AKKL
Application Year: 2004
Issue Date: 12/7/2004

Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 1002-6GQJNY
Application Year: 2005
Issue Date: 10/3/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 0681-67QTZP
Application Year: 2005
Issue Date: 1/11/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Minto Developments Inc.***
Ottawa ON

Database: ***CA***

Certificate #: 0523-7EVPTJ
Application Year: 2008
Issue Date: 8/21/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***

Terry Fox Drive Kanata ON

Certificate #:	0854-4JBJN5
Application Year:	00
Issue Date:	4/13/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Ottawa-Carleton
Client Address:	111 Lisgar Street
Client City:	Ottawa
Client Postal Code:	K2P 2L7
Project Description:	Extension of the watermain on Terry Fox Drive from Winchester Drive south to Michael Cowpland Drive, with a 400 mm diameter watermain.
Contaminants:	
Emission Control:	

Site: ***Briarridge Sewage Pumping Station*** ***Database:*** ***CA***

Lot 9, Concession 4 Ottawa ON

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

Site: ***Database:*** ***CA***

Kanata Research Park Kanata ON

Certificate #:	5816-5ALKNH
Application Year:	02
Issue Date:	5/30/02
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	Amended CofA
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive, Suite 206
Client City:	Kanata
Client Postal Code:	K2K 2X3
Project Description:	Increase Storage Volumes for Stormwater Management Pond No. 3.
Contaminants:	
Emission Control:	

Site: ***Database:*** ***CA***

Kanata Research Park Kanata ON

Certificate #:	8125-4MTJ36
Application Year:	02
Issue Date:	5/30/02
Approval Type:	Municipal & Private sewage
Status:	Revoked and/or Replaced
Application Type:	New Certificate of Approval
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive
Client City:	Kanata

Client Postal Code: K2K 2X3
Project Description: Construction of 3 (three) permanent stormwater management facilities to provide quality and quantity control.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 8125-4MTJ36
Application Year: 01
Issue Date: 2/6/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Amendment requested by Technical Support Staff.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 8125- 4MTJ36
Application Year: 01
Issue Date: 3/29/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive, Suite 206
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Design change of stormwater management pond 2 to allow encroachment of proposed Stealth Development and to provide for a second forebay
Contaminants:
Emission Control:

Site: ***Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road*** ***Database:*** ***CA***
Terry Fox Drive Ottawa ON

Certificate #: 1044-5E9JWT
Application Year: 02
Issue Date: 9/27/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: City of Ottawa
Client Postal Code: K1P 1J1
Project Description: SWM Facility, quality and quantitay control with inlet and outlet sewers
Contaminants:
Emission Control:

Site: ***Kanata Research Park*** ***Database:*** ***CA***
Solandt Road Ottawa ON

Certificate #: 3498-4YZLAG
Application Year: 01

Issue Date: 7/27/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 110 Laurier Avenue West
Client City: Ottawa
Client Postal Code: K1P 1J1
Project Description: This application is for the construction of storm sewers on Soland Road from March Road to Legget Drive, in the City of Ottawa.
Contaminants:
Emission Control:

Site: ***CANADIAN TIRE REAL ESTATE LTD., GILPAUL TERRY FOX DR.,GAS BAR SWM FAC. KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0329-99-
Application Year: 99
Issue Date: 7/26/1999
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MOSAID TECHNOLOGIES INCORPORATED PT.LOT 8/CON.3,HINES RD., SWM KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0773-97-
Application Year: 97
Issue Date: 8/13/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***COLONNADE DEVELOPMENT INC. SOLANDT RD., PT.8, BLK. 20,SWM KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0514-97-
Application Year: 97
Issue Date: 7/2/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database: ***CA***

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
TERRY FOX DR.,CROSS KEY, SWM KANATA CITY ON

Database: ***CA***

Certificate #: 3-0087-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOTS 8&9/C-4, HELMSDALE,SWM KANATA ON

Database: ***CA***

Certificate #: 3-1056-98-
Application Year: 98
Issue Date: 9/18/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOT 9/CON.4,NEWBRIDGE (SWM) KANATA CITY ON

Database: ***CA***

Certificate #: 3-0095-94-
Application Year: 94
Issue Date: 3/15/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***COLONNADE DEVELOPMENT INC.***
SOLANDT ROAD EXTENSION KANATA CITY ON

Database: ***CA***

Certificate #: 3-1191-95-
Application Year: 95
Issue Date: 8/29/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORPORATION***
TERRY FOX DR. KANATA N. BUS. P KANATA CITY ON

Database: ***CA***

Certificate #: 7-0653-87-
Application Year: 87
Issue Date: 6/9/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***954198 ONTARIO INC.***
ST. #1/MCKINLEY DR.,PLAN 4M755 KANATA CITY ON

Database: ***CA***

Certificate #: 7-0520-93-
Application Year: 93
Issue Date: 6/24/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D***
M.T.O. ACCES RD/TERRY FOX DR. KANATA CITY ON

Database: ***CA***

Certificate #: 7-0939-91-
Application Year: 91

Issue Date: 8/2/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD.***
HINES RD. KANATA CITY ON

Database: ***CA***

Certificate #: 7-1597-89-
Application Year: 89
Issue Date: 10/3/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***TAYLOR DEVELOPMENTS***
SHOPPING CEN., TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 7-1321-88-
Application Year: 88
Issue Date: 8/19/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY***
LEGGET DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 7-1141-88-
Application Year: 88
Issue Date: 7/28/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY VALLEY-VU REALTY***
FUTURE TERRY FOX DR. KANATA CITY ON

Database: ***CA***

Certificate #:	7-1420-86-
Application Year:	86
Issue Date:	12/17/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***954198 ONTARIO INC.***
MCKINLEY DR.N./PLAN 4M-755 KANATA CITY ON

Database: ***CA***

Certificate #:	3-0665-93-
Application Year:	93
Issue Date:	6/24/1993
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***WILLIAM S. BURNSIDE CANADA LTD.-PT.LOT 9***
HINES RD./ON-SITE S-WAT. MGT. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1024-92-
Application Year:	92
Issue Date:	9/18/1992
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY - TERRY FOX DR.***
TERRY FOX DR/M.T.O.ACCESS RD. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1175-91-
Application Year:	91
Issue Date:	8/2/1991
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	

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

Site: ***KANATA RESEARCH PARK CORP./CROSS KEYS STORMWATER MANAGEMENT FACILITY KANATA CITY ON***

Database: ***CA***

Certificate #: 3-0160-90-
Application Year: 90
Issue Date: 1/22/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD. STORMW. DET. FAC. HINES RD. KANATA CITY ON***

Database: ***CA***

Certificate #: 3-1831-89-
Application Year: 89
Issue Date: 1/21/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY - EAST MARCH TRUNK SEWERS PROP.EASMT.-LEGGET DRIVE KANATA CITY ON***

Database: ***CA***

Certificate #: 3-2442-89-
Application Year: 89
Issue Date: 12/18/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA HINES RD. KANATA CITY ON***

Database: ***CA***

Certificate #: 3-1921-89-
Application Year: 89
Issue Date: 10/3/1989

Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY VALLEY-VU REALTY FORCEMAIN***
FUTURE TERRY FOX DR. P.S. KANATA CITY ON

Database: ***CA***

Certificate #: 3-1793-86-
Application Year: 86
Issue Date: 12/17/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY***
TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 3-1806-87-
Application Year: 87
Issue Date: 10/5/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY KANATA N. BUSINESS PARK***
TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 3-0786-87-
Application Year: 87
Issue Date: 6/9/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***SHELL CANADA PRODUCTS LIMITED***
DON MILLS ON

Database: ***CONV***

File No:
Crown Brief No:
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: DISCHARGING A CONTAMINANT - ADVERSE EFFECT
Background:
URL:

Location:
Region: SOUTH EAST REGION
Ministry District:

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 13(1)
Act/Regulation/Section: EPA- -13(1)
Date of Offence:
Date of Conviction:
Date Charged: 92/05/12
Charge Disposition:
Fine: 90000
Synopsis:

Site: ***Minto Developments Inc.***
Ottawa ON K1R 7Y2

Database: ***ECA***

Approval No: 7163-5SYQ3M
Approval Date: 2003-11-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Developments Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2997-5SKKCW-14.pdf
PDF Site Location:

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

Site: ***Shell Canada Limited***
Nepean Ottawa ON M2N 6Y2

Database: ***ECA***

Approval No: 1454-96LJDX
Approval Date: 2013-04-19
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Shell Canada Limited
Address: Nepean
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6976-92AQLQ-14.pdf

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

PDF Site Location:

Site: ***Minto Developments Inc.***
Ottawa ON K1R 7Y2

Database: ***ECA***

Approval No:	4490-5SYQAN	***MOE District:***	
Approval Date:	2003-11-14	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Business Name:	Minto Developments Inc.		
Address:			
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***City of Ottawa***
Terry Fox Dr Ottawa ON K1P 1J1

Database: ***ECA***

Approval No:	1044-5E9JWT	***MOE District:***	
Approval Date:	2002-09-27	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	City of Ottawa		
Address:	Terry Fox Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6019-59QSAT-14.pdf		
PDF Site Location:			

Site: ***Nepean Concession 3 Dump***
Ottawa ON

Database: ***LIMO***

ECA/Instrument No:	Y0163	***Natural Attenuation:***	
Oper Status 2016:	Historic	***Liners:***	
C of A Issue Date:		***Cover Material:***	
C of A Issued to:		***Leachate Off-Site:***	
Lndfl Gas Mgmt (P):		***Leachate On Site:***	
Lndfl Gas Mgmt (F):		***Req Coll Lndfll Gas:***	
Lndfl Gas Mgmt (E):		***Lndfll Gas Coll:***	
Lndfl Gas Mgmt Sys:		***Total Waste Rec:***	
Landfill Gas Mntr:		***TWR Methodology:***	
Leachate Coll Sys:		***TWR Unit:***	
ERC Est Vol (m3):		***Tot Aprv Cap Unit:***	
ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***MOE Region:***	
Source File Type:	Historic and Closed Landfills	***MOE District:***	
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Air Emis Monitor:			

Approved Waste Type:
Client Site Name: Nepean Concession 3 Dump
ERC Methodology:
Site Name:
Site Location Details: Ottawa
Service Area:
Page URL:

Site: ***Cumberland Landfill Fernand Leduc City of Ottawa***
Lot 9, Concession 3 Ottawa ON

Database: ***LIMO***

ECA/Instrument No: A461602
Oper Status 2016: Closed
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
ERC Volume Unit:
ERC Dt Last Det:
Landfill Type:
Source File Type:
Fill Rate:
Fill Rate Unit:
Tot Fill Area (ha):
Tot Site Area (ha):
Footprint:
Tot Apprv Cap (m3):
Contam Atten Zone:
Grndwtr Mntr:
Surf Wtr Mntr:
Air Emis Monitor:
Approved Waste Type:
Client Site Name:
ERC Methodology:
Site Name: Cumberland Landfill
Fernand Leduc
City of Ottawa
Site Location Details:
Service Area:
Page URL:

Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfll Gas:
Lndfll Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:
Financial Assurance:
Last Report Year:
MOE Region:
MOE District:
Site County:
Lot:
Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

Site: ***Mattamy (Half Moon Bay) Limited***
Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean ON

Database: ***PTTW***

EBR Registry No: 010-4784
Ministry Ref No: 6623-7JUKMA
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 29, 2009
Proposal Date: October 08, 2008
Year: 2008
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Mattamy (Half Moon Bay) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 123 Huntmar Drive, Ottawa Ontario, Canada K2S 1B9
Comment Period:
URL:

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

Site Location Details:

Lots 8,9,10,11,12, Concession 3 Ottawa, Ontario CITY OF OTTAWA Nepean

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

Database: ***PTTW***

EBR Registry No: IA05E1015
Ministry Ref No: ER-3083-67XPBX
Notice Type: Instrument Decision
Notice Stage:
Notice Date: November 02, 2005
Proposal Date: June 29, 2005
Year: 2005
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Kanata Research Park Corporation
Site Address:
Location Other:
Proponent Name:
Proponent Address: 555 Legget Drive, Kanata Ontario, K2K 2X3
Comment Period:
URL:

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

Site Location Details:

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

Site: ***Burnside Sand & Gravel Limited***
Lots 6 7 and 8, Concession 4, City of Ottawa CITY OF OTTAWA ON

Database: ***PTTW***

EBR Registry No: 011-7053
Ministry Ref No: 7358-8XFPY5
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 04, 2012
Proposal Date: August 27, 2012
Year: 2012
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Burnside Sand & Gravel Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: Burnside Sand & Gravel Limited, 5597 Power Road, Ottawa Ontario, Canada K1G 3N4
Comment Period:
URL:

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

Site Location Details:

Lots 6 7 and 8, Concession 4, City of Ottawa CITY OF OTTAWA

Site: ***PUC***
TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD. KANATA CITY ON

Database: ***SPL***

Ref No: 4874
Site No:
Incident Dt: 6/7/1988

Discharger Report:
Material Group:
Health/Env Conseq:

Year:		***Client Type:***	
Incident Cause:	COOLING SYSTEM LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20103
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	6/7/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	FIRE/EXPLOSION	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	KANATA HYDRO - 150 L MINERAL OIL (NO PCBS) TO GROUND.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	8471	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	8/22/1988	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	ABOVE-GROUND TANK LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/22/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	UPLANDS AIRPORT - 50 L OF JET FUEL TO PAVEMENT FROM TANK TRUCK.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	16382	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	3/27/1989	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	

Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	3/27/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	UPLANDS AIRPORT - 20 L OF JET FUEL TO GROUND.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	21872	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/11/1989	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/11/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SHELL REFUELING VEHICLE- 70 L AVIATION FUEL TO GROUND.		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	23253	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	//	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/7/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	

Incident Reason: EQUIPMENT FAILURE
Source Type:
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHELL- 4.5 LTR SPILL OF JET FUEL AT UPLANDS AIRPORT
Contaminant Qty:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No: 26231
Site No:
Incident Dt: 10/5/1989
Year:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/5/1989
Dt Document Closed:
Incident Reason: EQUIPMENT FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHELL CANADA - 120L JET FUEL TO TERMINAL RAMP
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting: DEPT OF TRANSPORT
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No: 30521
Site No:
Incident Dt: 2/2/1990
Year:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium: LAND / AIR
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2/2/1990
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SHELL TANK TRUCK-50 L AVIATION FUEL TO ASPHALT
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ***SHELL CANADA PRODUCTS LTD.***
SERVICE STATION OTTAWA CITY ON

Database: ***SPL***

Ref No:	60160	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	11/24/1991	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	SHELL, FIRE DEPT. TRIANGLE PUMP
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	11/25/1991	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	CORROSION	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: SHELL SERVICE STATION - 25 L. OF GASOLINE TO GROUND FROM LEAKY CAR
Contaminant Qty:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	81836	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/14/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/14/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: SHELL-25L OF JET A-1 FUELTO GROUND DURING FUELLINGCONTAINED, CLEANED UP.
Contaminant Qty:

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	81843	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/14/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	

Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/14/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	UNKNOWN	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SHELL CANADA - 20 L OF AVIATION FUEL TO RAMP DUE TO TRUCK LEAK		
Contaminant Qty:			

Site: ***SHELL CANADA PRODUCTS LTD.***
TANK TRUCK (CARGO) OTTAWA CITY ON

Database: ***SPL***

Ref No:	84404	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	4/21/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/22/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SHELL CANADA - 40 L OF AVIATION FUEL AT GATE A DUE TO TRUCK LEAK		
Contaminant Qty:			

Site: ***Nortel Networks<UNOFFICIAL>***
Nortel Networks<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	4030-6GTJE2	***Discharger Report:***	0
Site No:		***Material Group:***	Gases/Particulate
Incident Dt:	9/28/2005	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Other
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	HALON (CFC)	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa

Nature of Impact:		***Site Lot:***	
Receiving Medium:	Air	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	10/3/2005	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spills at Federal Facilities & Spills of National Interest
Incident Reason:		***Source Type:***	
Site Name:	Nortel Networks<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Spill to Air		
Contaminant Qty:			

Site: ***Van's Industrial & Specialty Coatings<UNOFFICIAL>***
Terry Fox Drive, Nepean Ottawa ON

Database: ***SPL***

Ref No:	2438-6GNMTJ	***Discharger Report:***	0
Site No:		***Material Group:***	Oil
Incident Dt:	9/28/2005	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Transport Accident	***Sector Type:***	Other Motor Vehicle
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:	DIESEL FUEL	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:	Land & Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/28/2005	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spills to Watercourses
Incident Reason:	Adverse Road Condition - Road faults	***Source Type:***	
Site Name:	East side of Terry Fox Drive, between March Road and Legget Drive<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Van's Cleaning, 40 L diesel to road, ditch, sewer		
Contaminant Qty:			

Site: ***City of Ottawa***
LEGGET AND MARCH RD, KANATA<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	0123-64NQX5	***Discharger Report:***	
Site No:		***Material Group:***	Waste
Incident Dt:	9/9/2004	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Discharge Or Bypass To A Watercourse	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	44	***Nearest Watercourse:***	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	***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:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:	Water	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	9/9/2004	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spill to Inland Watercourses

Incident Reason:	Equipment Failure	***Source Type:***	
Site Name:	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Legget & March Rd SPS,raw,unchlorin,equip failure		
Contaminant Qty:			

Site: ***Shell Canada Products Limited***
Shell Canada Ottawa ON

Database: ***SPL***

Ref No:	6267-5M2K7H	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:	4/28/2003	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:	12	***Nearest Watercourse:***	
Contaminant Name:	GASOLINE	***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:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Other Impact(s)	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/28/2003	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Spills
Incident Reason:		***Source Type:***	
Site Name:	LOADING RACK 1<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Shell - 1L gasoline		
Contaminant Qty:	1 L		

Site: ***OTTAWA-CARLETON, REG. MUN.***
LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE KANATA CITY ON

Database: ***SPL***

Ref No:	134351	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	//	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	CONTAINER OVERFLOW	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	20103
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	11/18/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	REG. MUN. OTTAWA-CARLETONL.U.S.T. FUEL LEAKING OUTTOP OF THE TANK.		
Contaminant Qty:			

Site: ***ONTARIO HYDRO***
SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database: ***SPL***

Ref No:	128700	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	6/26/1996	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	COOLING SYSTEM LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	CONFIRMED	***Site Municipality:***	20103
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	EPS
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/3/1996	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	OTHER	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.
Contaminant Qty:

Site:
lot 8 ON

Database: ***WWIS***

Well ID:	1500396	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	2/26/1948
Sec. Water Use:	0	***Selected Flag:***	True
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1107
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	OTTAWA CITY (GLOUCESTER)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	008
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	JG
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022441	***Elevation:***	
DP2BR:	28.00	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	29-Oct-1947 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 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

Overburden and Bedrock Materials Interval

Formation ID: 930989162
Layer: 2
Color:
General Color:
Mat1: 26
Most Common Material: ROCK
Mat2: 19
Mat2 Desc: SLATE
Mat3:
Mat3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500396
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10571011
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037815
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 28
Casing Diameter: 4
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
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500396
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 6.0
Recommended Pump Depth:
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 8.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933452913
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 51.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Dec 31, 2021

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Nov 30, 2021

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Dec 31, 2021

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Nov 30, 2021

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Nov 30, 2021

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Dec 31, 2021

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Nov 30, 2021

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Dec 31, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Sep 2020

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Nov 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2021

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix G

Aerial Photographs

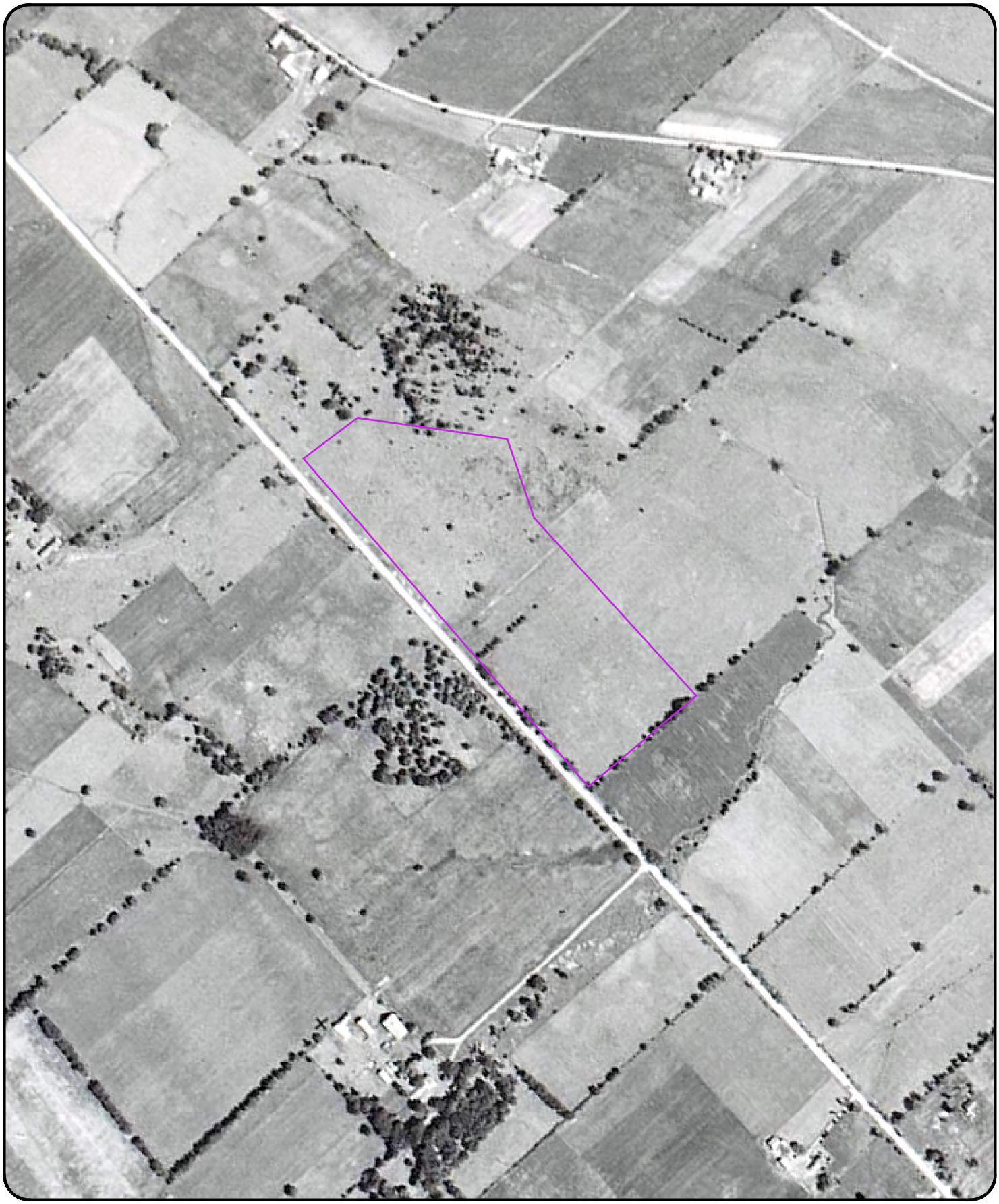
HISTORICAL AERIALS

Project Property:	600 March Road, Ottawa, Ontario 600 March Road Kanata ON K2K 2T6
Project No:	12566614
Requested By:	GHD Limited
Order No:	22010600440
Date Completed:	January 13, 2022

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

Decade	Year	Image Scale	Source
1920	Not Available		
1930	1934	15000	NAPL
1940	1945	15000	NAPL
1950	1952	15000	NAPL
1960	1960	25000	NAPL
1970	1976	10000	City of Ottawa
1980	1985	15000	NAPL

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Kilometers

Order Number: 22010600440

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Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS



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Order Number: 22010600440

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Map Scale: 1: 10000
Comments:



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Order Number: 22010600440

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Map Scale: 1: 10000
Comments:

ERIS



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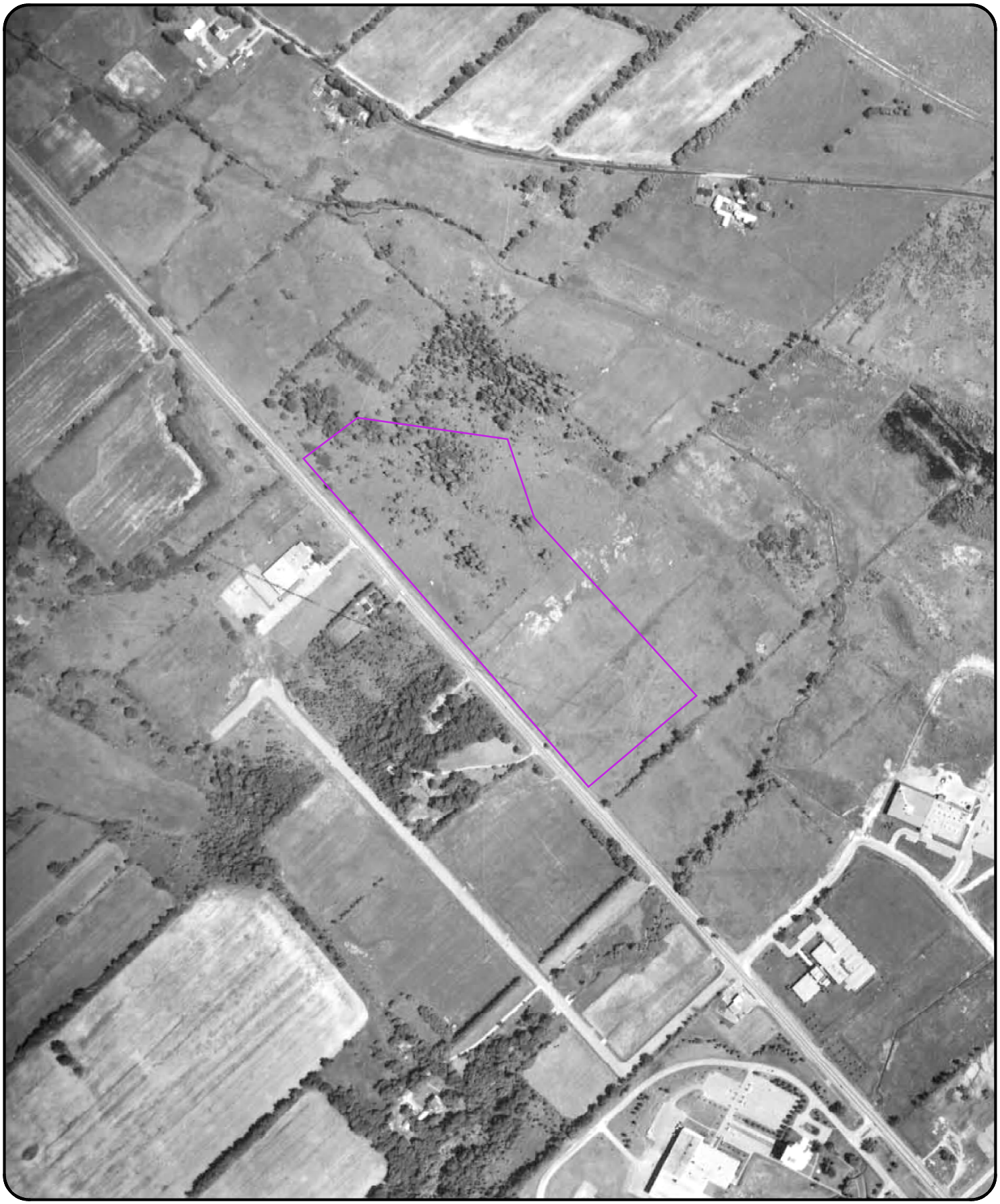
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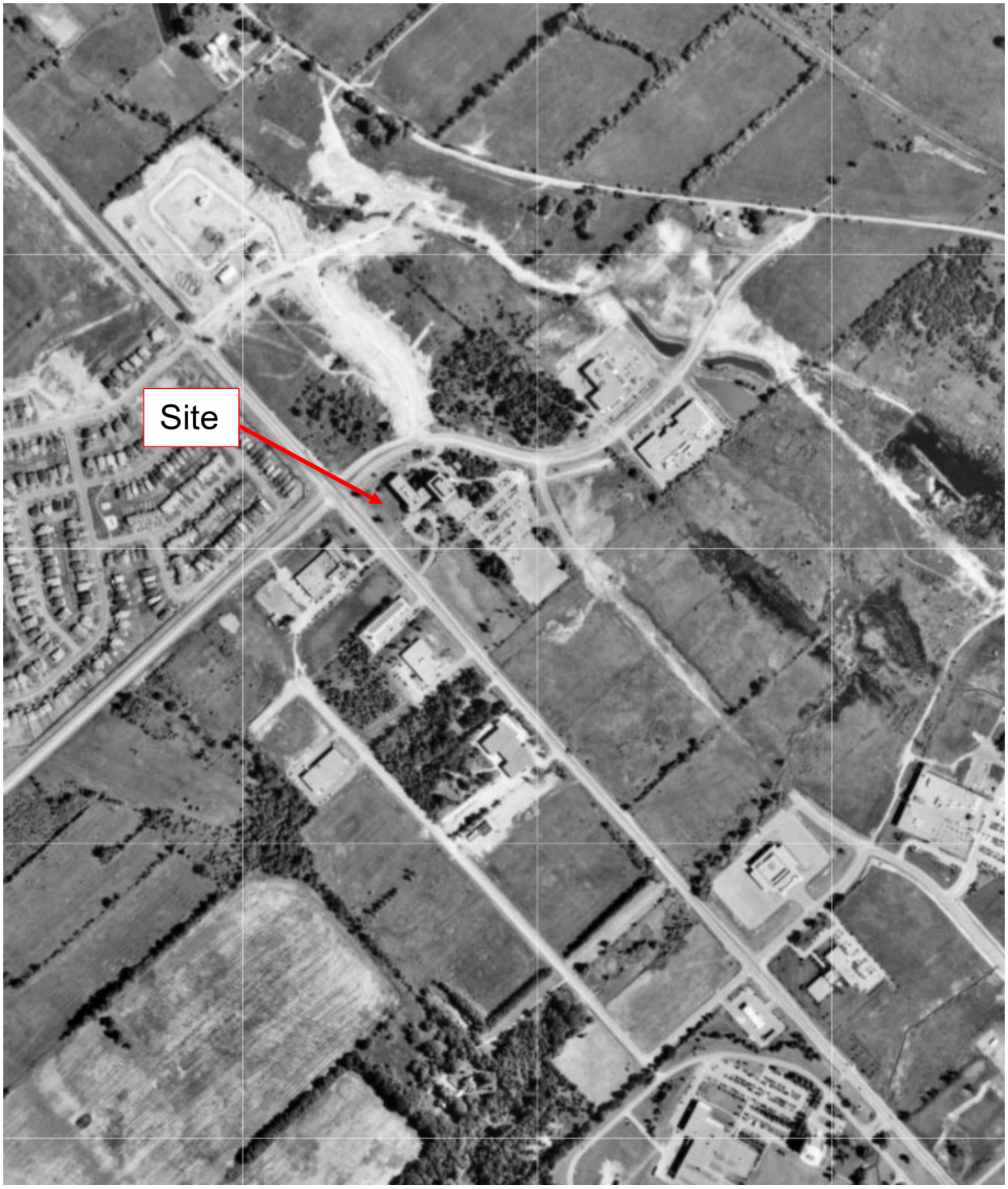


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ERIS



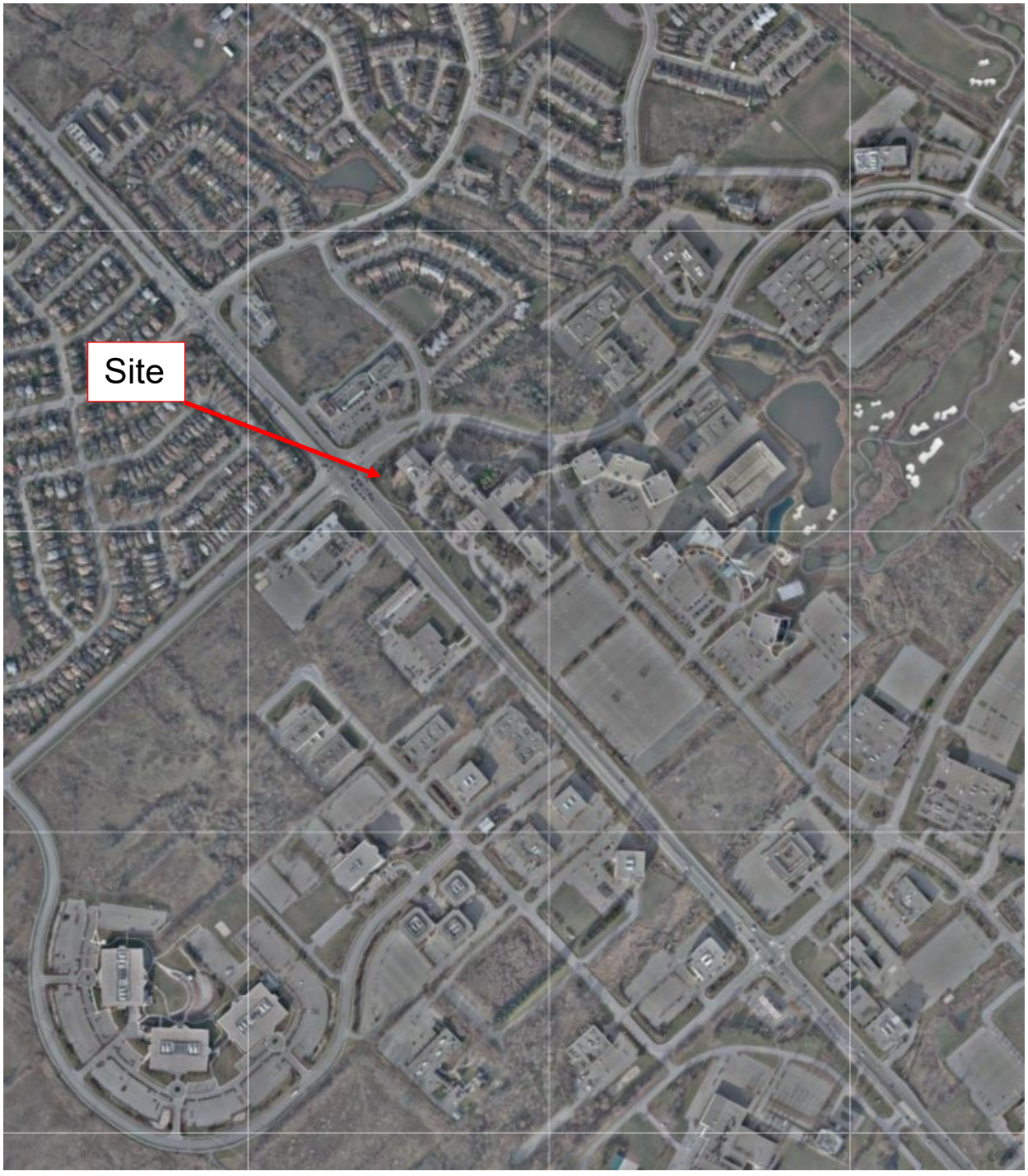
Year 1991

Aerial Photograph

Phase One ESA | 600 March Road



Year 1999



Year 2009

Aerial Photograph

Phase One ESA | 600 March Road



Year 2019

Aerial Photograph

Phase One ESA | 600 March Road

Appendix H

Site Photographs

Site Photographs



Photo 1 *View of Site Buildings (Corporate Tower and Tower 1), facing north.*



Photo 2 *View of Site Buildings (Left to Right: Tower 1, Main Lobby, Tower 2, Link 2, Tower 3, facing northeast.*



Photo 3 *View of Site Building (Link 2 and Tower 3), facing east.*



Photo 4 *View of Site Building (Tower 1), facing west.*



Photo 5 *View of Site Building (Tower 2) with ramp to below ground parking, facing east.*



Photo 6 *View of Site Building on northeast portion of Property, with Hydro Vault (left portion of building) and Diesel Generator and Tank (AST; right portion of building) on the interior, facing north.*



Photo 7 *View of Diesel Generator building (left; decommissioned flat tank below generator) and diesel tank on exterior (right), facing east.*



Photo 8 *View of Site Building (Link 2 on right, Tower 3 on left) with loading dock ramp, facing south.*



Photo 9 *View of Site parking lot, facing south. Legget Drive on left, Sanmina Corporation beyond parking lot (adjacent manufacturing), and Terry Fox on right.*



Photo 10 *View of surrounding properties (beyond Legget Drive) to the east, facing east.*



Photo 11 *View of Legget Drive beyond which are surrounding office/hotel building properties to the east and southeast, facing southeast.*



Photo 12 *View of March Road beyond which are surrounding office building properties to the southwest and west, facing southwest.*



Photo 13 *View of March Road beyond which is commercial strip mall, office building property, and residential development beyond Terry Fox Drive, facing west.*



Photo 14 *View of Terry Fox Drive beyond which is commercial strip mall property, facing north. McKinley Drive observed to the right, beyond which is residential development*



Photo 15 ***View of Terry Fox Drive beyond which is wooded area and additional office building properties, facing east.***



Photo 16 ***View of Main Lobby with stairs to lower level.***



Photo 17 View of typical office cubicle area.



Photo 18 View of typical server lab; dry transformers observed.



Photo 19 View of diesel generator and day tank located in penthouse of Tower 3.



Photo 20 View of bulk diesel tank on ground floor of Tower 3 (feeds day tank located in Tower 3 penthouse).



Photo 21 View of grease trap in kitchen of the Corporate Building.



Photo 22 View of sump pump pits and glycol system for Tower 2 basement loading ramp with trench drain.



Photo 23 View of Tower 2 basement loading area.



Photo 24 Typical penthouse glycol loop system and reservoir tanks.



Photo 25 *Typical exterior heat exchanger system (glycol or refrigerant).*

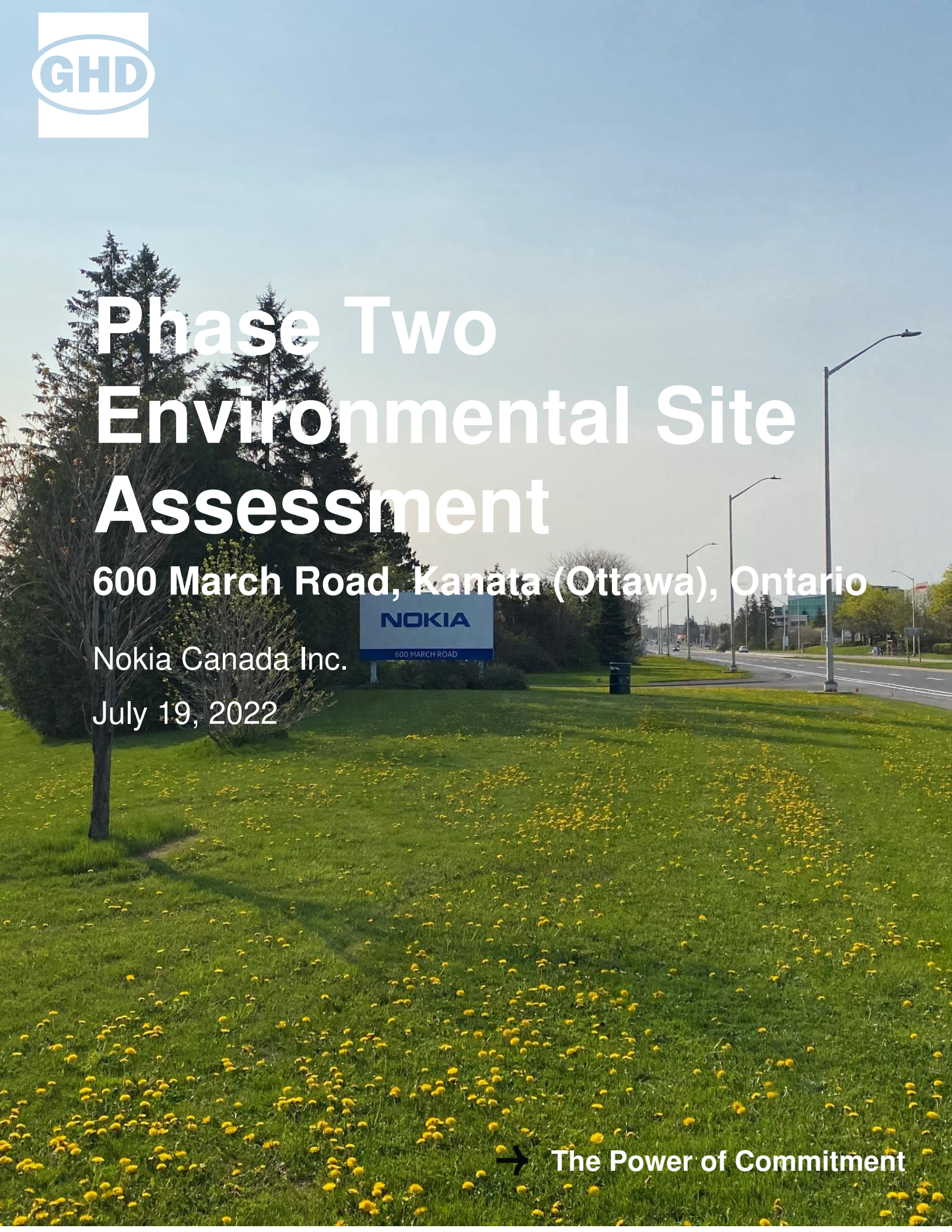


Photo 26 *Evidence of drips/staining below generator (on top of decommissioned flat tank) in outbuilding located in the northeast portion of the Site.*



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The Power of Commitment



Phase Two Environmental Site Assessment

600 March Road, Kanata (Ottawa), Ontario

Nokia Canada Inc.

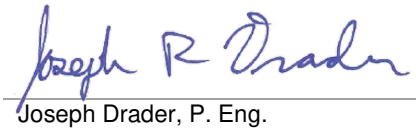
July 19, 2022

→ The Power of Commitment

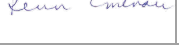
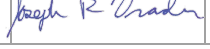
Author(s):



Nidhi Gupta



Joseph Drader, P. Eng.

Project name	Nokia Property/Colliers/300 March Road							
Document title	Phase Two Environmental Site Assessment | 600 March Road, Kanata (Ottawa), Ontario							
Project number	12566614							
File name	12566614-RPT-3-Draft-Phase Two ESA							
Status Code	**Revision**	**Author**	**Reviewer**		**Approved for issue**			
			Name	**Signature**	**Name**	**Signature**	**Date**	
S3	00	Nidhi Gupta	Kevin Emenau, P.Geo.	*On File	Joseph Drader, P.Eng.	*On File	July 05-2022	
S4	01	Nidhi Gupta	Kevin Emenau, P.Geo.		Joseph Drader, P.Eng.		July 19-2022	

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1. Executive summary

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase Two Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase Two Property. GHD previously prepared a Phase One ESA dated April 20, 2022 at the Site. The Phase One ESA and Phase Two ESA were undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA and Phase Two ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with Ontario Regulation (O. Reg) 153/04, as applicable.

Based on the results of the Phase One ESA (GHD, 2022), the following areas of potential environmental concerns (APECs) were identified:

– APEC #1 – Adjacent Manufacturing Operations
– APEC #2 – Surrounding Dry Cleaning Operations
– APEC #3 – Surrounding Historic Landfill
– APEC #4 – Surrounding Manufacturing Operations
– APEC #5 – Site Diesel Generator/Tank Operations

The Phase Two ESA was recommended based on the APECs identified in the Phase One ESA, in order to assess the soil and groundwater quality at the Site. The Phase Two ESA field activities were completed in May 2022, and included the advancement of advancement of boreholes into the overburden and bedrock stratigraphy, installation of overburden and bedrock monitoring wells, soil field screening and groundwater monitoring, and the collection and laboratory analysis of soil and groundwater samples for testing of contaminants of potential concern (CPCs) based upon visual and olfactory observations. CPCs included metals and inorganic compounds, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), and/or general chemistry parameters.

A summary of the analytical results of the soil and groundwater quality are presented below:

– **Soil Quality** | Based on a review of the soil analytical results, all analyzed parameters had concentrations below the Ministry of the Environment, Conservation and Parks (MECP) Table 7 Standards. No associated impacts were noted for APEC #5 (Site Diesel Generator/Tank Operations).
– **Groundwater Quality** | Based on a review of the groundwater analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Site), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Site Diesel Generator/Tank Operations).
– There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs.

Based on the May 2022 results, it is recommended that monitoring wells (including the wells deemed dry during the May 2022 investigation) in the northern half of the Property be resampled during future residential planning and when applying for a Record of Site Condition with the MECP. This recommendation is to ensure groundwater monitoring and quality data are up to date.

2. Introduction

GHD was retained by Nokia Canada Inc. (Nokia) to conduct a Phase Two Environmental Site Assessment (ESA) of the commercial/industrial property located at 600 March Road in Kanata (Ottawa), Ontario; the property will be hereinafter referred to as the Site or Phase Two Property. A Site Location Map and a Site Plan are provided on **Figure 1 and Figure 2**, respectively.

The Phase Two ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase Two ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 – RSC, as applicable.

The objective of the Phase Two ESA was to undertake a preliminary investigation of the general soil and groundwater quality on Site and in the Areas of Potential Environmental Concern (APECs) that were identified to be associated with the Site based on the findings of the 2022 Phase One ESA completed by GHD.

2.1 Site Description

The Phase Two Property is located east of March Road, south Terry Fox Drive, and west of Legget Drive. The Phase Two Property is approximately 10.39 hectares (ha) (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 square metres [m^2] of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads and landscaped areas. The Phase Two Property is currently used for office and research/development activities. Prior to the current development, the Phase Two Property was vacant and/or used for agricultural purposes.

The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa. The Site contains five parcels with the following property identification numbers (PINs) and descriptions:

- 04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.
- 04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.
- 04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.
- 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
- 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

2.2 Property Ownership

The Site is currently owned by Nokia Canada Inc. Contact information for the client representative is listed below:

Mr. Aaron Clodd, Director, Development Management Strategy & Consulting Group
Colliers
181 Bay Street, Suite 1400
Toronto, Ontario M5J 2V1

Phone | (905) 960-4506
Email | aaron.clodd@colliers.com

2.3 Current and Proposed Future Uses

The Site is currently used for office and research/development activities. Prior to the current development, the Phase Two Property was vacant and/or used for agricultural purposes.

GHD's understanding that Nokia intends to amend the zoning of the Phase Two Property to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building in the southern portion of the Site, with the potential to add more underground basement levels subject to the bedrock depth, along with residential towers in the central and northern portions of the Site (up to ten buildings based on current concept plans).

2.4 Applicable Site Condition Standards

Generic site condition standards are provided in the Ontario MECP document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. The 2011 standards are referenced in O. Reg. 153/04 – Records of Site Condition, as amended by O. Reg. 511/09 (hereafter referred to as the 2011 MECP Standards).

The Standard provides site condition standards for certain chemicals, based on combinations of six different site-specific conditions, as follows:

– Property use type – agricultural, residential/parkland/institutional, or industrial/commercial/community. The Property had been used for commercial/industrial land uses. The Property is planned to be redeveloped for further residential /parkland and commercia/industrial land use. As such, the standards for both residential/parkland/institutional property use and industrial/commercial/community property use were applied to the Site.
– Restoration of groundwater quality - potable/non-potable. The Property, and all other properties located, in whole or in part, within 250 metres (m) of the boundaries of the property, are supplied by a municipal drinking water system. The Site is not in an area designated on the City of Ottawa official plan as an intake protection zone. The Site is not in an area designated on the City of Ottawa official plan as a well-head protection area (WHPA). As such, the standards for a non-potable groundwater condition are considered applicable to the Site.
– Restoration depth - full depth and stratified depth. For comparative purposes, the full depth standards were applied to the Site.
– Soil texture - coarse or medium to fine. Based on the results of the Phase Two ESA (presented herein), the predominant soil type on Site is considered to be coarse textured. As such, the standards for coarse textured soils were applied to the Site.
– Shallow soil property. The Site is considered to be a shallow soil property, due to less than 2 m of overburden above bedrock existing for a majority of the Site.
– Within 30 m of a water body. There are no water bodies or water courses located on the Site.

The generic 2011 MECP Standards are not applicable if the Site is considered to be an environmentally sensitive area based on the conditions presented in Section 41 of O. Reg. 153/04, as amended. Based on GHD's review, there are no Areas of Natural Scientific Interest (ANSI) or Provincially Significant Wetlands (PSW) identified by the Ministry of Natural Resources and Forestry (MNRF) within the 250 m Study Area. There are no areas designated by the municipality in its current official plan (Bylaw 2008-250-Zoning) as Environmentally Protected zoning ('EP') within the Study Area. As the Site does not contain an area of natural significance as defined by O. Reg. 153/04, and properties within 250 m of the Site limits do not contain areas of natural significance, the Site is not classified as an environmentally sensitive property (O. Reg. 153/04, s41).

Based upon the above-described assessments, the O. Reg. 153/04 Table 7: General Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (residential/parkland/institutional and industrial/commercial/community property use; coarse-grained soil texture) is considered the applicable Site comparison.

2.5 Limitations

This report has been prepared by GHD for Nokia Canada Inc. and may only be used and relied on by Nokia Canada Inc. for the purpose agreed between GHD and Client.

GHD otherwise disclaims responsibility to any person other than Client arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

3. Background Information

3.1 Physical Setting

The Site is currently used for office and research/development activities. Prior to the current development, the Phase Two Property was vacant and/or used for agricultural purposes. The Site is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads and landscaped areas.

Information regarding adjacent/surrounding properties within the Phase Two Study Area are noted below:

North

The Site is bound to the north by Terry Fox Drive, beyond which are the following properties:

- Wooded area (north) and strip mall property (northeast) at 700 March Road with offices (Scotia Bank, dental, optometry, and physio), stores (convenience market, barber, video games, and cleaners [no dry cleaning observed]) and restaurants (Burger King, Subway, Chinese Food, Barley Mow) to the north.
- Residential development to the north (off McKinley Drive) and to the northwest beyond intersection of March Road and Terry Fox Drive.
- Beyond the commercial property to the north is a vacant, wooded property, followed by a Shell gas station with car wash building at 720 March Road.
- Beyond wooded area to the northeast are office buildings at 360 and 362 Terry Fox Drive (Artaflex [integrated electronics services] and B.J. Kane Electric Ltd. [commercial and industrial electrical services], respectively).

West

The Site is bound to the west by March Road, beyond which are the following properties (north to south):

- Office buildings at 603 March Road and 375 Terry Fox Drive (Renesas [microcontrollers, analogue, and power devices] and TalentLab [IT Recruiters]).
- Vacant, wooded property.
- Commercial strip mall property at 591 March Road; includes following businesses: insurance, veterinary hospital, restaurants, pet grooming and supplies, spa.
- Power Muscle & Fitness (Gym) property at 555 March Road.

– Commercial property (insurance company and medicine wellness centre) at 525 March Road.
– Office building at 88 Hines Road (Telemus [electric warfare systems] and CCI Antennas [wireless equipment]).
– Office buildings at 80 and 84 Hines Road (multiple businesses at both buildings).
– Royal Canadian Legion at 70 Hines Road.
– Office buildings at 505 March Road and 50 Hines Road (multiple businesses at both buildings).

South

The Site is bound to the south by the following properties:

– Office and possible manufacturing (Sanmina Corporation – Optical, RF/Microwave products) at 500 March Road (adjacent).
– Vacant, wooded property with evidence of a creek running through it at 490 March Road.
– Office building at 3001 Solandt Road (flex [electronics services]).
– Office building at 40 Hines Road (Trend Micro [cybersecurity]; across March Road to the southwest).
– Office building at 495 March Road (multiple businesses; across March Road to the southwest).

East

The Site is bound to the east by Legget Drive, beyond which are the following properties (south to north):

– Office building at 425 Legget Drive (Innovapost, Avaya, Renaissance).
– Office building at 515 Legget Drive (multiple businesses).
– Brookstreet Hotel and Conference Center at 525 Legget Drive, beyond which is a golf course and stormwater ponds.
– Office building at 535 Legget Drive (multiple businesses).
– Office buildings at 555 Legget Drive (multiple businesses).
– Office building at 359 Terry Fox Drive (multiple businesses).

Based on the 2022 GHD Phase One ESA (refer to Section 3.2):

– There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Phase Two Study Area. The closest significant surface water body is the Ottawa River located approximately 3.2 kilometres (km) northeast of the Site.
– Based on the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.
– The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catch basins in parking lot and driveways, as well as from other surrounding properties.
– The Property, and all other properties located, in whole or in part, within 250 m of the boundaries of the property, are supplied by a municipal drinking water system. The Site is not in an area designated on the City of Ottawa official plan as an intake protection zone. The Site is not in an area designated on the City of Ottawa official plan as a WHPA.
– GHD is not aware of any historical utility and/or water services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

3.2 Past Investigations

The following investigations have been completed at the Site:

– *"Phase One Environmental Site Assessment – 600 March Road, Ottawa, Ontario", prepared by GHD, dated April 20, 2022*
– *"Preliminary Geotechnical Investigation and Hydrogeological Assessment", prepared by GHD, dated April 7, 2022*

Information from the 2022 Phase One ESA report is referenced in Section 4.2 (Phase One Conceptual Site Model), as well as included in other sections of this report, as applicable. The Phase One Conceptual Site Model with the location of applicable APECs and potentially contaminating activities (PCAs) is presented on **Figure 3**.

Applicable information from the 2022 GHD Preliminary Geotechnical Investigation and Hydrogeological Assessment report is refenced in Section 6.

4. Scope of the Investigation

The Phase Two ESA included assessments of the soil and groundwater quality on Site. The Phase Two ESA field activities included the advancement of boreholes and installation of monitoring wells, field screening, and the collection and laboratory analysis of soil and groundwater samples as described in detail below. The data generated within GHD's investigative activities has been presented herein.

4.1 Media Investigated

Based on the APECs identified at the Site, the investigation of the soil and groundwater quality on Site included the following:

Media Type	Date	Borehole/Well, Test Hole, & Test Pit	Sample Location	Analytical Parameters	APEC Info
Soil	April 2022	S-001, S-002, S-003, S-004	Shallow Overburden	BTEX, PHC F1-F4	Exterior diesel above ground storage tank (AST) and Generator (PCA #28; APEC #5) within fenced in area surrounding generator at the Site
Groundwater	May 2022	BH01-22 BH02-22, BH11-22, BH12-22	Overburden Bedrock	Metals/Inorganics, PAHs, PHC F1-F4, VOCs	Southern Property Boundary adjacent to electronic manufacturing operations (PCA #19; APEC #1) at 500 March Road
		BH13-22, BH14-22, BH15-22, BH16-22, BH17-22 BH16-22, BH17-22	Bedrock	VOCs Metals/Inorganics, PAHs, PHC F1-F4, VOCs	Northwest Property Boundary – Operation of former dry cleaners (PCA #37; APEC #2) at 591 March Road; Historic March Landfill with associated adjacent groundwater contamination plume (PCA #58; APEC #3); and electronic manufacturing operations (PCA #19; APEC #4) at 603 March Road
		BH10-22	Bedrock	BTEX, PHC F1-F4	Exterior diesel above ground storage tank (AST) and Generator (PCA #28; APEC #5) within fenced in area surrounding generator at the Site

Notes:
BTEX – Benzene, toluene, ethylbenzene, and xylene
PAHs – Polycyclic Aromatic Hydrocarbons
PHC F1-F4 – Petroleum Hydrocarbon Fractions F1 to F4
VOCs – Volatile Organic Compounds

The borehole, monitoring well, and sampling locations are shown on **Figure 4.**

There are no water bodies located on the Site; therefore, surface water and sediment were not sampled during the Phase Two ESA. Soil vapour sampling was not completed as part of the Phase Two ESA.

4.2 Phase One Conceptual Site Model

The Site is located at 600 March Road in Kanata (Ottawa), Ontario, east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa.

The Site is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas.

The Site is currently owned by Nokia Canada Inc., and is currently used for office and research/development activities. Prior to Nokia owning/operating the Site, the following companies conducted similar operations/activities: Newbridge Networks; Alcatel; and Alcatel-Lucent. Prior to the current development, the Site was vacant and/or used for agricultural purposes.

The general topography at the Site and surrounding area is noted to be relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. There are no water bodies or water courses located on the Site. Surface water ponds are located to the east of the Site (associated with a golf course), and portions of Shirley's Brook are observed in the southern portion and east-northeast boundaries of the Site. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Based on GHD's "Preliminary Geotechnical and Hydrogeological Investigation" report (dated April 7, 2022) a Site investigation was carried out between January 28 and February 6, 2022, to provide understanding of the soil/bedrock stratigraphy and groundwater conditions at the Site. A summary of the applicable subsurface conditions is noted below:

- Topsoil (organic material with rootlets), and asphalt surfaces with granular base/subbase were observed from the surface to approximately 0.9 metres below ground surface (mBGS). Silty clay to clay deposit was encountered below topsoil or subbase material.
- Auger refusal (presumed bedrock) was encountered at depths ranging from 0.4 to 3.6 mBGS in all boreholes.
- Groundwater was not encountered in the overburden stratigraphy.
- Groundwater static water elevations in the bedrock stratigraphy ranged from 75.84 to 77.24 metres above mean sea level (mAMSL) on February 9, 2022. The estimated groundwater flow direction is likely to the south and/or east towards Shirley's Brook (actual direction could not be confirmed based on well locations and dry well conditions). It should be noted that the position of the groundwater table is subject to seasonal fluctuations and is responsive to precipitation and snowmelt events.

Based on the information reviewed and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered an area of natural significance.

The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The Site is serviced with natural gas provided by Enbridge for various building operations/appliances. The Site is currently serviced with municipal water, sanitary sewer, and storm sewer services. GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site.

Based on the results of the Phase One ESA, including the Site inspection, information provided by Site representatives and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site.

1. **Adjacent Manufacturing Operations** | Based on review of historical documentation and Site inspection, the electronic manufacturing operations of the Sanmina Corporation on the adjacent property to the south at

500 March Road is identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the southern property boundary is identified as **APEC #1**.

2. **Surrounding Dry Cleaning Operations** | The operation of various dry cleaners at 591 March Road to the west of the Site (across March Road) is identified as a PCA (#37 – Operation of Dry Cleaning Equipment) in accordance with O. Reg. 153/04, and the northwest portion of the property boundary is identified as **APEC #2**.
3. **Surrounding Historic Landfill** | The historic March Landfill (operated from 1963 to 1974) and associated groundwater contamination (chlorinated solvents that extend approximately 1.5 km from the former landfill) located northwest and west of the Site are identified as a PCA (#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners) in accordance with O. Reg. 153.04, and the northwest portion of the property boundary is identified as **APEC #3**.
4. **Surrounding Manufacturing Operations** | Newbridge Networks Corp at 603 March Road located west of the Site (across March Road) was identified in the CA database with approved/cancelled Industrial Air certificates around 1990-1991 for Exhaust Systems No. 1-5. In addition, Tundra Semiconductor Corp was identified with operations noted as "semiconductor and other electronic component manufacturing". The operations at 603 March Road are identified as a PCA (#19 – Electronic and Computer Equipment Manufacturing) in accordance with O. Reg. 153.04, and the northwest property boundary is identified as **APEC #4.**
5. **Site Diesel Generator/Tank Operations** | Although no reported spills were identified by the Site Representative, due to snow covered exterior containment area and evidence of drips/staining from generator within the outbuilding (on top of flat tank), the operation of the exterior 4,540 litre AST is identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04, and the fenced in area containing the generator and AST is identified as **APEC #5**.

The Phase One ESA Conceptual Site Model, including the location of PCAs and APECs, is depicted on **Figure 3**. Based on the results, the contaminants of concern were identified as metals/inorganics, PAHs, PHCs, VOCs, and/or BTEX.

4.3 Deviations from the Sampling and Analysis Plan

Deviations from the sampling and analysis plan occurred during the field program due to several dry wells and lack of groundwater exhibited in a few of the monitoring wells installed in May 2022. A summary of the deviations are described below:

– Monitoring wells BH13-22, BH15-22, and BH16-22 could not be sampled due to wells being dry and/or extremely limited recharge of groundwater observed at these wells.
– Metals/Inorganics and PAH parameters were removed from analysis from sample collected at BH11-22 due to limited recharge of groundwater observed at this well.

4.4 Impediments

There were no impediments encountered during the investigation.

5. Investigation Methods

5.1 General

The following investigative activities were undertaken between April 28 and May 26, 2022, and are described in detail in the following subsections:

– Advancement of boreholes.

- Installation of groundwater monitoring wells.
- Collection of field screening measurements and observations.
- Collection and laboratory analysis of soil and groundwater samples.
- Groundwater field measurements of water quality parameters.
- Collection of groundwater level measurements.
- Residue management.
- Quality assurance and quality control measures.
- Elevation surveying.

The field investigation activities were completed in accordance with MECP protocols, GHD's standard operating procedures (SOPs), and standard industry practice.

Prior to completing the investigation activities undertaken by GHD, a Site-specific Health and Safety Plan (HASP) was prepared to provide specific guidelines and established procedures for the protection of personnel performing the Site investigation activities. In addition, the appropriate public utility notifications were completed and a private utility locator was retained to assist with on-Site utility clearances. Private utility locate services were completed prior to undertaking subsurface investigative activities.

5.2 Drilling and Boring Activities

As part of the Preliminary Geotechnical Investigation and Hydrogeological Assessment (GHD, April 2022) conducted at the Site between January 28 and February 2, 2022, ten boreholes BH01-22 to BH10-22 were drilled to refusal or within bedrock. Borehole BH01-22 (overburden) and boreholes BH-02-22, BH03-22, BH06-22, and BH10-22 (bedrock) were originally installed with monitor wells for groundwater level measurements and hydrogeological assessment purposes, but were later used to investigate groundwater quality conditions associated with APEC #1 and APEC #5.

On April 28, 2022, hand shoveling was used to collect soil samples (S-001 to S-004) at the existing exterior diesel AST and Generator (APEC #5) located on the Site. Soil was sampled at a depth of approximately 0.3 mBGS.

On May 11 and 12, 2022, seven boreholes (BH11-22 to BH17-22) were advanced on Site using a track-mounted drill rig, and each of the boreholes was instrumented as a monitoring well to investigate groundwater quality conditions associated with APEC #1 to #4. GHD retained Aardvark Drilling Inc. (Aardvark), a MECP licensed driller of Carleton Place, Ontario, to complete the drilling activities.

The location of the boreholes and monitoring wells are shown on **Figure 4**. Borehole and monitoring well installation details, including geological descriptions of the soil encountered, are provided in borehole logs presented in **Appendix A.** Borehole logs were not created for the four shallow soil samples (S-001 to S-004).

Prior to use and between each borehole, the drilling and sampling equipment was thoroughly cleaned using Alconox® soap and potable water rinse.

5.3 Soil Sampling

Soil samples S-001 to S-004 were collected near and around the existing exterior diesel AST and Generator (APEC #5) on Site. Soil sample collection was facilitated through the use of a stainless steel shovel. Soil samples were collected at a depth of approximately 0.3 mBGS, directly from the shallow boring. Soil samples were not collected from the drilled borehole locations

Soil samples obtained from each borehole were qualitatively and quantitatively screened for the presence of impact. Qualitative screening was based on visual and olfactory observations, while quantitative screening was based on the presence of undifferentiated VOCs in the headspace of soil samples collected as measured in the field (refer to Section 5.4 for further screening details).

Select soil samples were submitted for laboratory analysis of VOCs and PHCs. Soil samples were collected in laboratory supplied glass containers which were placed in a cooler containing ice for sample preservation. Undisturbed samples for VOC analysis were placed directly in sample containers provided by the laboratory. All soil samples were collected using the required sampling techniques in accordance with O. Reg. 153/04, including the methanol field preservation method for those soil samples being submitted for analysis of PHC F1 and VOCs. Samples were submitted to the laboratory for analysis under chain-of-custody protocol. A sample key for the submitted soil samples is presented in **Table 1**.

5.4 Field Screening Measurements

As discussed in Section 5.3, soil samples of the overburden were taken and placed into a sealable plastic bag for headspace screening. The headspace soil samples were screened for undifferentiated VOC vapour readings using a photo-ionization detector (PID). Prior to screening, the field screening equipment was inspected and calibrated according to the manufacturer's recommendations by GHD personnel.

The results of the field screening for all collected soil samples are presented in **Table 3**. PID screening results ranged from 0.0 to 0.2 parts per million (ppm) for VOC headspace readings.

5.5 Groundwater: Monitoring Well Installation

Between January and May 2022, groundwater monitoring wells were installed in twelve of the seventeen on-Site boreholes advanced as part of the geotechnical, hydrogeological, and environmental investigations. The locations of the monitoring wells are presented on **Figure 4**.

The monitoring well at BH01-22 was installed in the overburden stratigraphy, originally for geotechnical and hydrogeological assessment purposes in February 2022 (Note: BH01-22 was observed to be dry in February 2022), but later used for collection of groundwater samples for laboratory analysis in May 2022. The remaining 11 monitoring wells (BH02-22, BH03-22, BH6-22, and BH10-22 to BH17-22) were all installed/sealed in the deeper bedrock to facilitate the hydrogeological assessment in February 2022 (only BH02-22, BH03-22, BH06-22 and BH10-22; Note: BH03-22 was observed to be dry in February 2022) and collection of groundwater samples for laboratory analysis in May 2022.

The monitoring wells were constructed with a 2-inch (") (50 millimetre [mm]) diameter, Schedule 40 polyvinyl chloride (PVC) riser and No. 10 slot size well screens (either 1.5 or 3 m screen length). A silica sand pack was placed in the annular space between the PVC screen/riser pipe and the borehole to a height of at least 0.3 m above the top of the screen. A bentonite seal was placed directly above the sand pack and extended to within 0.3 m of the ground surface. To complete the installation, an expandable J-plug or a 2" PVC cap was placed on the riser pipe to protect against debris falling and/or surface runoff infiltrating into the well and a protective aboveground steel casing (flush-mount construction) with a concrete collar was placed around each well to cover the top of the riser pipe. The groundwater monitoring well construction and installation details are shown on the stratigraphic and instrumentation logs provided in **Appendix A** Monitoring wells BH01-22 to BH03-22, BH06-22, and BH10-22 were developed on February 3, 2022, and monitoring wells BH11-22 to BH17-22 were developed on May 16th to May 18th, 2022, in order to remove all residual drilling fluids and/or remove as much silt from the wells as possible. A minimum of three to five well volumes were attempted for each well, although development of BH11-22 to BH17-22 took over 3-days to complete due to the slow recharge and lack of groundwater in several of the monitoring wells. The monitoring wells were allowed to stabilize for at least 1-week prior to the completion of groundwater sampling activities.

5.6 Groundwater Field Measurements of Water Quality Parameters

In order to ensure that samples representative of on-Site groundwater conditions was obtained, each monitoring well was purged prior to groundwater sample collection using dedicated Waterra™ valves and tubing. The following protocol was generally followed at each monitoring well location during well purging activities:

– Groundwater level measurements were collected prior and subsequent to well development activities using a calibrated oil/water interface probe. The depth to water was measured relative to a specific reference point in the monitoring well. Reference and groundwater levels and elevations are presented in **Table 2.**
– Where Waterra™ sampling techniques were used, a minimum of three well volumes of water were purged from the monitoring well. In the event that slow groundwater recharge conditions were encountered, the well was purged until dry and then allowed to recover prior to sample collection. Field measurements of temperature, pH, turbidity, and electrical conductivity were taken using a water quality meter after each purged well volume was removed until consistent field measurements were recorded indicating that water in the well was representative of the actual groundwater conditions**.**
– Groundwater in the monitoring well was allowed to recover and settle prior to sample collection to reduce sediment agitation and mobilization in volatile and semi-volatile samples.

5.7 Groundwater Sampling

Groundwater samples were collected from a total of seven monitoring wells (BH01-22, BH02-22, BH10-22, BH11-22, BH12-22, BH14-22, and BH17-22) on May 17, May 25, and May 26. Refer to Section 5.6 for details on the sampling method.

Groundwater samples were collected and placed directly into laboratory-supplied sample containers specific to the analytical parameters. Groundwater samples were submitted for laboratory analysis of one or more of the following parameters: O. Reg. 153/04 metals/inorganics, PHC F_1 to F_4, VOCs, BTEX, and/or PAHs. Groundwater samples collected for metals analysis were field filtered using a 0.45 micron filter prior to sample collection. Samples were stored in coolers chilled with ice for sample preservation and submitted to the laboratory for analysis under chain-of-custody protocol. The chain-of-custody forms document the condition and handling of the samples throughout the collection, transportation, and final analysis of the samples. A sample key for the submitted groundwater samples is presented in **Table 1**.

5.8 Sediment Sampling

Sediment sampling was not completed during the Phase Two ESA as sediment was not identified as a potentially contaminated media.

5.9 Analytical Testing

Soil and groundwater samples collected during GHD's investigation were submitted to ALS Global (ALS) in Ottawa, Ontario. ALS is a member of the Standards Council of Canada (SCC) and Canadian Association of Environmental Analytical Laboratories (CAEAL). Copies of the analytical laboratory reports are provided in **Appendix B.**

5.10 Residue Management Procedures

Soil cuttings, equipment decontamination wash water and purge/well development water for GHD's investigative activities were containerized in 205-litre drums for off-Site disposal. Soil cuttings and wash water/purge/development waters are being temporarily stored on Site.

5.11 Elevation Surveying

The elevations of the boreholes were surveyed using a survey grade GPS equipment referenced to the NAD 83 UTM Zone 18 and geodetic datum, for boreholes BH01-22 to BH10-22 in February 2022. Boreholes BH11-22 to BH17-22 were surveyed in May 2022 using GPS and laser level equipment, and tying in elevations initially collected in February 2022.

5.12 Quality Assurance and Quality Control Measures

A Quality Assurance/Quality Control (QA/QC) program was implemented during the program to ensure quality data was generated. This program involved both field and laboratory QA/QC measures.

Samples were collected in laboratory supplied sampling containers with the appropriate preservative in accordance with O. Reg. 153/04, including the methanol field preservation method for those soil samples being submitted for analysis of PHC F_1 and VOCs.

Samples were submitted under chain-of-custody protocol to an analytical laboratory for chemical analysis. For quality assurance, the following was undertaken:

- Between collection of each soil and groundwater sample, GHD field personnel donned a new pair of disposable nitrile gloves.
- Prior to use and between each borehole location, the drilling and non-dedicated sampling equipment was thoroughly cleaned using Alconox® soap and potable water rinse.
- Stainless steel sampling equipment was used and cleaned using Alconox® soap and potable water rinse between each sample collection event.
- Wherever possible, dedicated sampling equipment (e.g., LDPE tubing, fittings, Ziploc® bags, etc.) was used to reduce the potential for cross contamination.
- The groundwater monitoring wells were equipped with a dedicated Waterra™ foot valve and polyethylene tubing for well development activities.

To validate the field analysis, QA/QC trip blanks were also submitted (generally one per laboratory submission) for soil and groundwater where analysis of volatile parameters were required QC samples were also analysed by the laboratory as required by their analytical methods. A Data Quality Assessment and Verification memorandum is presented in **Appendix C**.

6. Review and Evaluation

The results of the Site investigation activities are described in the following sections.

6.1 Geology

In general, soils encountered at the borehole locations consisted of a surface layer of topsoil or asphalt pavement, overlying a fill material and discontinuous layer of native silty clay to clay, overlying sandstone bedrock with dolomite interbeds. Shallow bedrock ranging in depths of 0.4 to 1.37 mBGS was encountered in the northern and central portions of the Site and gradually increased to depths of up to 1.4 to 4.7 mBGS in the southern portion of the site boundary.

General descriptions of the subsurface conditions are summarized in the following sections, with a graphical representation of each borehole presented on borehole logs attached in **Appendix A**.

6.1.1 Surface Material

Topsoil was encountered in at boreholes BH07-22, BH09-22, and BH11-22 to BH17-22 to depths ranging from 0.6 to 0.9 mBGS and generally constituted of organic material with rootlets.

An asphalt layer with thickness of 100 mm was encountered at the ground surface at the location of boreholes BH02-22, BH03-22, BH04-22, BH05-22, BH06-22, BH08-22, and BH10-22. Granular base/subbase (fill material) encountered below the asphalt consisted of sandy silt, sandy gravel to gravelly sand, and extends to depths ranging from 0.4 to 0.9 mBGS. Fill material was also encountered at the surface in borehole BH01-22 and extends to depth of 0.6 mBGS.

6.1.2 Silty Clay to Clay

Silty clay to clay deposits were encountered below the fill or topsoil in boreholes BH01-22 to BH05-22, BH07-22, BH11-22, and BH12-22 at depth of 0.6 to 4.7 mBGS.

6.1.3 Sandy Silt to Clayey Silt

Sandy silt to clayey silt deposits were encountered below topsoil in boreholes BH13-22, BH14-22, and BH15-22 directly above bedrock. The silt deposit extended to depths ranging from 0.6 to 1.4 mBGS.

6.1.4 Bedrock

Bedrock (including presumed due to auger refusal) was encountered at depths ranging from 0.4 to 4.7 mBGS. Upon refusal on the presumed possible bedrock, boreholes BH02-22, BH03-22, BH06-22, BH07-22, and BH10-22 were extended an additional 1.6 m to 6.4 m below the refusal using HQ diamond coring methods to confirm the presence, type, and quality of bedrock. Bedrock at boreholes BH11-22 to BH17-22 were drilled an additional 3.2 to 5.2 m below refusal using air hammer methods.

Based on retrieved rock core and rock exposures, bedrock at the site consists of slightly weathered to fresh, thinly to medium bedded, light grey with yellow bands dolomitic sandstone of the Beekmantown Group per the published Paleozoic geology map.

Rock Quality Designation (RQD) values measured on the bedrock core samples generally range from 63 to 100 percent, indicating fair to excellent quality rock, except for bedrock at borehole BH10-22 where RQD value of 36 percent indicating poor quality rock is noted at depths of 3.5 to 4.0 mBGS. This low RQD value measured was due to mechanical break that occurred during the last core run of borehole BH10-22 drilling operations, resulting in loss of some of the drilled core sample.

6.2 Groundwater Elevations and Flow Direction

Groundwater level measurements were collected from the on-Site monitoring wells using a calibrated electronic oil/water interface probe (i.e., Solinst) or a Solinst water level tape. The depth to water was measured relative to a specific reference point in the monitoring well (i.e., the top of the monitoring well riser pipe). Based on the survey information of the top of riser pipe elevation, the groundwater elevation was calculated by subtracting the water level measurement from the reference point elevation. Groundwater level measurements and elevations collected on May 26, 2022 are provided in **Table 2**, with groundwater elevations, contours, and flow direction depicted on **Figure 5**.

Based on the water level measurements recorded on May 26, 2022, the direction of groundwater flow across the Site in the bedrock aquifer appears to be highly variable and heading in multiple directions. Due to lack of groundwater in portions of the overburden stratigraphy and multiple dry bedrock wells, groundwater flow may be affected by differential pathways in the bedrock aquifer. It should be noted that the groundwater table is subject to seasonal fluctuations and in response to precipitation and snowmelt events. Also, it would be expected that water may be

perched within fill materials or the poor bedrock. Future monitoring would determine if the flow patterns were accurate throughout the year.

There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

6.3 Groundwater Hydraulic Gradients

The hydraulic gradient would be calculated by dividing the difference in hydraulic head by the lateral distance between monitoring locations. As noted in Section 6.2, the May 26, 2022 direction of bedrock groundwater flow across the Site appeared to be highly variable and heading in multiple directions, as well as observations of limited groundwater in portions of the overburden stratigraphy and multiple dry bedrock wells. Hydraulic gradients would also be highly variable at this time, and affected by differential pathways in the bedrock aquifer and seasonal fluctuations. Future monitoring would determine if an accurate hydraulic gradient could be calculated.

Based on the hydrogeological assessment conducted in February 2022 (GHD, April 2022) and the results from single well response tests, the horizontal hydraulic conductivity (K_h) of the Beekmantown Group Formation at the Site ranges from 2.073×10^{-6} (BH10-22) to 3.849×10^{-5} centimetre per second (cm/sec) (2.073×10^{-4} to 3.849×10^{-3} [metres per day] m/day) (geometric mean 8.93×10^{-6} cm/sec [8.93×10^{-4} m/day]).

6.4 Soil: Field Screening

During the investigation, field screening of collected soil samples was undertaken for organic vapours using a MiniRAE photo-ionization detector (PID). Any visual or olfactory evidence of potential impacts was also documented. The results of the soil field screening and corresponding sample depth intervals are provided on **Table 3.**

During the drilling and groundwater sampling activities, there was no field evidence of impact identified nor evidence of light or dense non-aqueous phase liquids on the Site.

6.5 Soil Quality

Soil samples were selected for laboratory analysis around the exterior AST and diesel generator building (APEC #5) located on the Site. Surface soil samples were taken in four locations, S-001, S-002, S-003, and S-004. Five samples total were taken, comprised of four samples and one duplicate sample. All samples were taken from a depth of approximately 0.3 mBGS.

No parameters were found above MECP Table 7 Standards. During the drilling activities, there was no field evidence of impact identified nor evidence of light or dense non-aqueous phase liquids on the Site.

Laboratory analytical reports are provided in **Appendix B**. All soil analytical results are presented on **Table 3**. A summary of the maximum detected soil concentrations is presented in **Table 4.**

6.6 Groundwater Quality

Groundwater samples were collected for laboratory analysis from BH01-22, BH02-22, BH10-22, BH11-22, BH12-22, BH14-22, and BH17-22. Laboratory analytical reports are provided in **Appendix B**. All groundwater analytical results are presented on **Table 5**. A summary of the maximum detected groundwater concentrations is presented in **Table 6.** No parameters were found above MECP Table 7 Standards, with the exception of chloride concentrations in bedrock monitoring well BH17-22. This exceedance is assumed to be associated with snow plowing and road salt operations near the March Road and Terry Fox intersection.

During the groundwater sampling activities, there was no field evidence of impact identified nor evidence of light or dense non-aqueous phase liquids on the Site.

6.7 Sediment Quality

Sediment associated with water bodies was not identified as Potentially Contaminated Media on Site; therefore, sediment was not sampled during the Phase Two ESA.

6.8 Phase Two Conceptual Site Model

Introduction

The Site is located east of March Road, south of Terry Fox Drive, and west of Legget Drive. The Site is approximately 10.39 ha (25.67 acres) in size and includes multiple interlinked building/tower structures (approximately 50,000 m^2 of office and computer lab space), car parking (approximately 1,900 surface parking stalls), access roads, and landscaped areas.

The Site is legally described as Part of Block 1 and Block 6 under Registered Plan 4M-642 and Part of Lots 8 and 9 under Concession 4, Geographic Township of March, City of Ottawa.

The Site contains five parcels with the following property identification numbers (PINs) and descriptions:

– 04517-0813 (LT) | Block 1, Plan 4M-642, Save and Except 1, 2, and 16 on Plan 4R-12735, Kanata.
– 04517-0699 (LT) | Southeast Half of Lot 9, Concession 4, Designated as Part 4 on 4R-5753, Save and Except Parts 1, 2, and 3 on Plan 4R-11611, Kanata.
– 04517-0474 (LT) | PCL 6-1, Sec 4M-642, Block 6, PL 4M-642, Kanata.
– 04517-0467 (LT) (parking lot) | PCL 8-3, Sec March-4, PT LT 8, Con 4, Part 1, 4R10610, Kanata.
– 04517-0809 (LT) (parking lot) | Part of Lot 8 Concession 4, being Part 1 on Plan 4R-7809 except Parts 1 and 8 on Plan 4R10610 and Part 1 on Plan 4R12588, Kanata.

The Site is currently used for office and research/development activities. Prior to the current development, the Site was vacant and/or used for agricultural purposes.

It is GHD's understanding that Nokia intends to amend the zoning of the Site to add additional density and uses into an integrated live/work/play community. This includes the addition of two high rise buildings for labs and offices with at least one level of parking for each building in the southern portion of the Site, with the potential to add more underground basement levels subject to the bedrock depth, along with residential towers in the central and northern portions of the Site (up to ten buildings based on current concept plans).

The Phase Two ESA was undertaken for due diligence purposes, as well as in support of future local municipal planning department requirements associated with the proposed redevelopment of the Site. The Phase One ESA may also be used to support the preparation of a Record of Site Condition (RSC) in accordance with O. Reg. 153/04 - RSC, as applicable.

The objective of the Phase Two ESA was to undertake a preliminary investigation of the general soil and groundwater quality on Site and in the APECs that were identified to be associated with the Site based on the findings of the 2022 Phase One ESA completed by GHD.

Based on the results of the Phase One ESA (GHD, 2022), the following APECs were identified:

– APEC #1 – Adjacent Manufacturing Operations
– APEC #2 – Surrounding Dry Cleaning Operations
– APEC #3 – Surrounding Historic Landfill
– APEC #4 – Surrounding Manufacturing Operations
– APEC #5 – Site Diesel Generator/Tank Operations

The Phase Two ESA activities included the advancement of boreholes, installation of monitoring wells, field screening, and the collection and laboratory analysis of soil and groundwater samples.

Potential Contaminant Distribution and Transport Pathways

GHD did not observe any evidence of active or abandoned water supply wells or septic systems on the Site. A stormwater retention pond is located to the east of the Site (off-Site at golf course) that does capture Site storm water via catchbasins in parking lot and driveways, as well as from other surrounding properties. The Site is serviced with electricity provided by Hydro Ottawa, including three Hydro Ottawa rooms/vaults for main transformers (owned by Nokia). The buildings are heated by electric forced air, radiant, and baseboard heaters. The Site is serviced with natural gas provided by Enbridge for humidification units, kitchen appliances, and water heaters.

Based on the historical information reviewed, subsurface structures and utilities that may affect contaminant distribution and transport on Site included the following (which date back to the early development of the Site): utility backfill trenches, and abandoned utility conduits.

Physical Setting

The general topography in the Phase Two Study area is noted to be relatively flat and/or sloping east/south towards creeks associated with Shirley's Brook. The Ottawa River is located approximately 3.2 km northeast from the Site limits.

Geology | In general, soils encountered at the borehole locations consisted of a surface layer of topsoil or asphalt pavement, overlying a fill material and discontinuous layer of native silty clay to clay, overlying sandstone bedrock with dolomite interbeds.

Hydrogeology | Based on the water level measurements recorded on May 26, 2022, the direction of groundwater flow across the Site in the bedrock aquifer appears to be highly variable and heading in multiple directions. Due to lack of groundwater in portions of the overburden stratigraphy and multiple dry bedrock wells, groundwater flow may be affected by differential pathways in the bedrock aquifer. It should be noted that the groundwater table is subject to seasonal fluctuations and in response to precipitation and snowmelt events. Also, it would be expected that water may be perched within fill materials or the poor bedrock. Future monitoring would determine if the flow patterns were accurate throughout the year.

Applicable Site Condition Standards

The soil and groundwater analytical results were assessed to the MECP Table 7 Standards for Residential/Parkland/Institutional and Industrial/Commercial/Community property uses for a non-potable groundwater for coarse textured soils.

Nature and Extent of Impact

The soil and groundwater quality investigations included the advancement of boreholes and the instrumentation of the boreholes as groundwater monitoring wells. The investigative locations are shown on **Figure 4**. A summary of the analytical results is presented below.

Soil Quality | Based on a review of the soil analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards. No associated impacts were noted for APEC #5 (Site Diesel Generator/Tank Operations).

Groundwater Quality | Based on a review of the groundwater analytical results, all analyzed parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Site), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Site Diesel Generator/Tank Operations).

There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

As described in the Phase One ESA, five APECs were identified for the Site. The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs.

Potential Migration Pathways

No preferential migration pathways were identified associated with the results observed.

Climatic and Meteorological Conditions

The effect of climatic or meteorological conditions (such as the fluctuation of the groundwater table) on the distribution and migration of the contaminants on Site is not considered to be significant.

Vapour Intrusion

There are no vapour intrusion concerns associated with the Site.

7. Conclusions

The objective of the Phase Two ESA activities were to undertake investigations of the general soil and groundwater quality on Site and in the APECs that were identified to be associated with the Site. The Phase Two ESAs included the advancement of boreholes, installation of monitoring wells, field screening, and the collection and laboratory analysis of soil and groundwater samples. Based on the findings of the Phase Two ESA, the following conclusions are provided:

– All analyzed soil parameters had concentrations below the MECP Table 7 Standards. No associated impacts were noted for APEC #5 (Site Diesel Generator/Tank Operations).
– All analyzed groundwater parameters had concentrations below the MECP Table 7 Standards with the exception of a chloride exceedance at BH17-22 (northwest corner of the Site), assumed to be associated with snow plowing and road salt operations near the intersection of March Road and Terry Fox Drive. No associated impacts were noted for APEC #1 (Adjacent Manufacturing Operations), APEC #2 (Surrounding Dry Cleaning Operations), APEC #3 (Surrounding Historic Landfill), APEC #4 (Surrounding Manufacturing Operations), and APEC #5 (Site Diesel Generator/Tank Operations).
– There was no evidence of measurable NAPL during the drilling or groundwater sampling activities.

The Phase Two ESA results indicate that there are no potential impacts to soil and groundwater associated with the APECs.

Based on the May 2022 results, it is recommended that monitoring wells (including the wells deemed dry during the May 2022 investigation) in the northern half of the Property be resampled during future residential planning and when applying for a Record of Site Condition with the MECP. This recommendation is to ensure groundwater monitoring and quality data are up to date.

Tables

Sample Key
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Identification	Monitoring Location	Sampling Date	Sample Parameters
Soil Samples			
S-12566614-042822-DA-001	SS-001	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-002	SS-002	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-003	SS-003	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-004	SS-003 (duplicate)	April 28, 2022	BTEX, PHCs
S-12566614-042822-DA-005	SS-004	April 28, 2022	BTEX, PHCs
Groundwater Samples			
GW-12566614-051722-NG-001	BH01-22	May 17, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-051722-NG-002	BH02-22	May 17, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-051722-NG-003	BH10-22	May 17, 2022	PHCs/BTEX
GW-12566614-051722-NG-004	BH02-22 (duplicate)	May 17, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-052522-NG-005	BH12-22	May 25, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-052622-NG-006	BH17-22	May 26, 2022	Metals/Inorganics, PAHs, PHCs, VOCs
GW-12566614-052622-NG-007	BH14-22	May 26, 2022	VOCs
GW-12566614-052622-NG-008	BH11-22	May 26, 2022	Metals/Inorganics, PHCs, VOCs

Notes:
BTEX – Benzene, toluene, ethylbenzene, and xylene
PAHs – Polycyclic Aromatic Hydrocarbons
PHC – Petroleum Hydrocarbon Fractions F1 to F4
VOCs – Volatile Organic Compounds

Table 2

Groundwater Elevations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Well Identification	Grade Elevation (mAMSL)	Well Riser Elevation (mAMSL)	Well Bottom Depth (mBGS)	Well Bottom Elevation (mAMSL)	Static Water Level May 26, 2022 (mBTOR)	Static Water Elevation May 26, 2022 (mAMSL)
BH01-22 (Overburden)	80.18	80.06	3.42	76.75	2.45	77.61
BH02-22	79.72	79.65	8.38	71.33	3.14	76.51
BH03-22	80.71	80.61	2.82	77.88	0.92	79.68
BH06-22	79.61	79.51	3.39	76.22	2.74	76.78
BH10-22	80.43	80.39	3.85	76.58	2.53	77.86
BH11-22	80.21	80.12	8.17	72.04	5.93	74.19
BH12-22	79.60	79.49	7.70	71.90	2.05	77.44
BH13-22	81.95	81.83	6.01	75.94	NA (dry)	NA (dry)
BH14-22	82.19	82.12	6.00	76.20	3.57	78.55
BH15-22	81.94	81.88	6.05	75.89	NA (dry)	NA (dry)
BH16-22	81.49	81.44	6.35	75.14	NA (dry)	NA (dry)
BH17-22	81.48	81.41	5.71	75.77	5.36	76.05

Notes:
mAMSL - metres above mean sea level
mBGS - metres below ground surface
mBTOR - metres below top of riser
NA - not applicable

Table 3

Summary of Soil Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:				**SS-001**	**SS-002**	**SS-003**	**SS-003**	**SS-004**
Sample ID:				**S-12566614-0428-DA-001**	**S-12566614-0428-DA-002**	**S-12566614-0428-DA-003**	**S-12566614-0428-DA-004**	**S-12566614-0428-DA-005**
Sample Date:				**4/28/2022**	**4/28/2022**	**4/28/2022**	**4/28/2022**	**4/28/2022**
Sample Depth:				**0.30 mbgs**	**0.30 mbgs**	**0.30 mbgs**	**0.30 mbgs**	**0.30 mbgs**
Sample Type:				**Original**	**Original**	**Original**	**Duplicate of SS-003**	**Original**
PID Readings (ppm):				**0.0**	**0.1**	**0.2**	**0.2**	**0.1**
Parameters	**Units**	**MECP Table 7 Residential**	**MECP Table 7 Industrial/ Commercial**					
Volatile Organic Compounds								
Benzene	ug/g	0.21	0.32	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Ethylbenzene	ug/g	2	9.5	<0.018	<0.018	<0.018	<0.018	<0.018
Toluene	ug/g	2.3	68	<0.080	<0.080	<0.080	<0.080	<0.080
Xylenes (Total)	ug/g	3.1	26	<0.050	<0.19	<0.050	<0.050	<0.050
Petroleum Hydrocarbons Fractions								
PHC F1 (C6-C10)	ug/g	55	55	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (C10-C16)	ug/g	98	230	<10.0	<10.0	<10.0	<10.0	<10.0
PHC F3 (C16-C34)	ug/g	300	1700	<50.0	<50.0	<50.0	<50.0	<50.0
PHC F4 (C34-C50)	ug/g	2800	3300	<50.0	<50.0	<50.0	<50.0	<50.0

Notes:
m bgs - metres below ground surface
PID - Photoionization Detector (parts per million (PPM))
µg/g - microgram per gram
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (coarse textured soil).

Table 4

Maximum Soil Parameter Concentrations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Parameters	Units	MECP Table 7 Residential	MECP Table 7 Industrial/ Commercial	Maximum Soil Concentration	Sample Identification	Sample Depth (mBGS)
Volatile Organic Compounds						
Benzene	ug/g	0.21	0.32	ND(0.0068)	ALL	0.3
Ethylbenzene	ug/g	2	9.5	ND(0.018)	ALL	0.3
Toluene	ug/g	2.3	68	ND(0.080)	ALL	0.3
Xylenes (Total)	ug/g	3.1	26	ND(0.05)	ALL	0.3
Petroleum Hydrocarbons Fractions						
PHC F1 (C6-C10)	ug/g	55	55	ND(5.0)	ALL	0.3
PHC F2 (C10-C16)	ug/g	98	230	ND(10.0)	ALL	0.3
PHC F3 (C16-C34)	ug/g	300	1700	ND(50.0)	ALL	0.3
PHC F4 (C34-C50)	ug/g	2800	3300	ND(50.0)	ALL	0.3

Notes:
mBGS - metres below ground surface
µg/g - microgram per gram
ND (0.020) - Not detected at the associated method detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (coarse textured soil).

Table 5

Summary of Groundwater Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH10-22	BH02-22	BH12-22	BH17-22	BH14-22	BH11-22
Sample ID:			GW-12566614-051722-NG-001	GW-12566614-051722-NG-002	GW-12566614-051722-NG-003	GW-12566614-051722-NG-004	GW-12566614-052522-NG-005	GW-12566614-052622-NG-006	GW-12566614-052622-NG-007	GW-12566614-052622-NG-008
Sample Date:			5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/25/2022	5/26/2022	5/25/2022	5/26/2022
Sample Type:			Original	Original	Original	Duplicate	Original	Original	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**								
Physical Tests										
Conductivity	mS/cm	--	2.3	3.42	--	3.39	2.9	7.76	--	--
pH	-	--	8.11	7.76	--	7.75	7.54	7.84	--	--
Anions and Nutrients										
Chloride	ug/L	1800000	620000	896000	--	858000	749000	**2820000**	--	--
Cyanides										
Cyanide	ug/L	52	<2.0	<2.0	--	<2.0	<2.0	<2.0	--	<2.0
Dissolved Metals										
Antimony	ug/L	16000	<1.00	<1.00	--	<1.00	<1.00	<1.00	--	<1.00
Arsenic	ug/L	1500	<1.00	<1.00	--	<1.00	<1.00	<1.00	--	<1.00
Barium	ug/L	23000	244	216	--	209	129	573	--	473
Beryllium	ug/L	53	<0.200	<0.200	--	<0.200	<0.200	<0.200	--	<0.200
Boron	ug/L	36000	<100	<100	--	<100	<100	<100	--	<100
Cadmium	ug/L	2.1	<0.0500	<0.0500	--	<0.0500	<0.0500	0.0799	--	<0.0500
Chromium	ug/L	640	<5.00	<5.00	--	<5.00	<5.00	<5.00	--	<5.00
Cobalt	ug/L	52	<1.00	<1.00	--	<1.00	1.46	1.23	--	2.78
Copper	ug/L	69	<2.00	<2.00	--	<2.00	<2.00	3.75	--	<2.00
Lead	ug/L	20	<0.500	<0.500	--	<0.500	<0.500	<0.500	--	<0.500
Mercury	ug/L	0.1	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	--	<0.0050
Molybdenum	ug/L	7300	2.39	1.47	--	1.49	7.98	6.93	--	17.4
Nickel	ug/L	390	<5.00	<5.00	--	<5.00	5.87	<5.00	--	9.96
Selenium	ug/L	50	<0.500	<0.500	--	<0.500	0.914	0.745	--	0.701
Silver	ug/L	1.2	<0.100	<0.100	--	<0.100	<0.100	<0.100	--	<0.100
Sodium	ug/L	1800000	236000	405000	--	415000	336000	1570000	--	381000
Thallium	ug/L	400	<0.100	<0.100	--	<0.100	<0.100	<0.100	--	<0.100
Uranium	ug/L	330	4.53	2.18	--	2.2	10.4	10.3	--	5.51
Vanadium	ug/L	200	<5.00	<5.00	--	<5.00	<5.00	<5.00	--	<5.00
Zinc	ug/L	890	<10.0	<10.0	--	<10.0	<10.0	<10.0	--	<10.0
Hexavalent Chromium	ug/L	110	<0.50	<0.50	--	<0.50	<0.50	<0.50	--	<0.50
Volatile Organic Compounds										
Acetone	ug/L	100000	<20	<20	--	<20	<20	<20	<20	<20
Benzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	ug/L	67000	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	ug/L	5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	ug/L	0.89	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	140	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	ug/L	2	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	ug/L	65000	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.2	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	ug/L	150	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	7600	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	3500	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	11	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50

Table 5

Summary of Groundwater Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH10-22	BH02-22	BH12-22	BH17-22	BH14-22	BH11-22
Sample ID:			GW-12566614-051722-NG-001	GW-12566614-051722-NG-002	GW-12566614-051722-NG-003	GW-12566614-051722-NG-004	GW-12566614-052522-NG-005	GW-12566614-052622-NG-006	GW-12566614-052622-NG-007	GW-12566614-052622-NG-008
Sample Date:			5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/25/2022	5/26/2022	5/25/2022	5/26/2022
Sample Type:			Original	Original	Original	Duplicate	Original	Original	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**								
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	ug/L	--	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	0.58	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
cis+trans-1,3-Dichloropropylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	--	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	--	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	ug/L	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexane (n)	ug/L	5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone [MEK]	ug/L	21000	<20	<20	--	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone [MIBK]	ug/L	5200	<20	<20	--	<20	<20	<20	<20	<20
Methyl-Tert-Butyl Ether [MTBE]	ug/L	15	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	ug/L	43	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	ug/L	320	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	23	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	2000	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	0.5	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
m+p-Xylene	ug/L	--	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Total Xylenes	ug/L	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hydrocarbons										
F1 (C6-C10)	ug/L	420	<25	<25	<25	<25	<25	<25	--	<25
F1-BTEX	ug/L	420	<25	<25	<25	<25	<25	<25	--	--
F2 (C10-C16)	ug/L	150	<100	<100	<100	<100	<100	<100	--	--
F2-naphthalene	ug/L	--	<100	<100	--	<100	--	--	--	--
F3 (C16-C34)	ug/L	500	<250	<250	280	<250	<250	<250	--	--
F3-PAH	ug/L	--	<250	<250	--	<250	--	--	--	--
F4 (C34-C50)	ug/L	500	<250	<250	<250	<250	<250	<250	--	--
Total Hydrocarbons (C6-C50)	ug/L	--	<370	<370	<370	<370	<370	<370	--	--
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	ug/L	17	<0.010	<0.010	--	<0.010	0.013	0.045	--	--
Acenaphthylene	ug/L	1	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Anthracene	ug/L	1	<0.010	<0.010	--	<0.010	0.04	0.018	--	--
Benz(a)anthracene	ug/L	1.8	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Benzo(a)pyrene	ug/L	0.81	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	--	--
Benzo(b+j)fluoranthene	ug/L	0.75	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Benzo(g,h,i)perylene	ug/L	0.2	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Benzo(k)fluoranthene	ug/L	0.4	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
Chrysene	ug/L	0.7	0.016	<0.010	--	<0.010	0.012	<0.010	--	--
Dibenz(a,h)anthracene	ug/L	0.4	<0.0050	<0.0050	--	<0.0050	<0.0050	<0.0050	--	--
Fluoranthene	ug/L	44	0.034	<0.010	--	<0.010	0.117	0.048	--	--
Fluorene	ug/L	290	<0.010	<0.010	--	<0.010	0.043	0.074	--	--
Indeno(1,2,3-c,d)pyrene	ug/L	0.2	<0.010	<0.010	--	<0.010	<0.010	<0.010	--	--
1+2-Methylnaphthalene	ug/L	1500	0.015	<0.015	--	<0.015	0.064	0.224	--	--
1-Methylnaphthalene	ug/L	1500	<0.010	<0.010	--	<0.010	0.024	0.144	--	--
2-Methylnaphthalene	ug/L	1500	0.015	<0.010	--	<0.010	0.04	0.08	--	--

Table 5

Summary of Groundwater Analysis
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Sample Location:			**BH01-22**	**BH02-22**	**BH10-22**	**BH02-22**	**BH12-22**	**BH17-22**	**BH14-22**	**BH11-22**
Sample ID:			**GW-12566614-051722-NG-001**	**GW-12566614-051722-NG-002**	**GW-12566614-051722-NG-003**	**GW-12566614-051722-NG-004**	**GW-12566614-052522-NG-005**	**GW-12566614-052622-NG-006**	**GW-12566614-052622-NG-007**	**GW-12566614-052622-NG-008**
Sample Date:			**5/17/2022**	**5/17/2022**	**5/17/2022**	**5/17/2022**	**5/25/2022**	**5/26/2022**	**5/25/2022**	**5/26/2022**
Sample Type:			**Original**	**Original**	**Original**	**Duplicate**	**Original**	**Original**	**Original**	**Original**
Stratigraphy			**Overburden**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**	**Bedrock**
Parameters	**Units**	**MECP Table 7 All Property Types**								
Naphthalene	ug/L	7	<0.050	<0.050	--	<0.050	<0.050	<0.050	--	--
Phenanthrene	ug/L	380	<0.020	<0.020	--	<0.020	0.486	0.638	--	--
Pyrene	ug/L	5.7	0.019	<0.010	--	<0.010	0.108	0.1	--	--

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Table 6

Maximum Groundwater Parameter Concentrations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

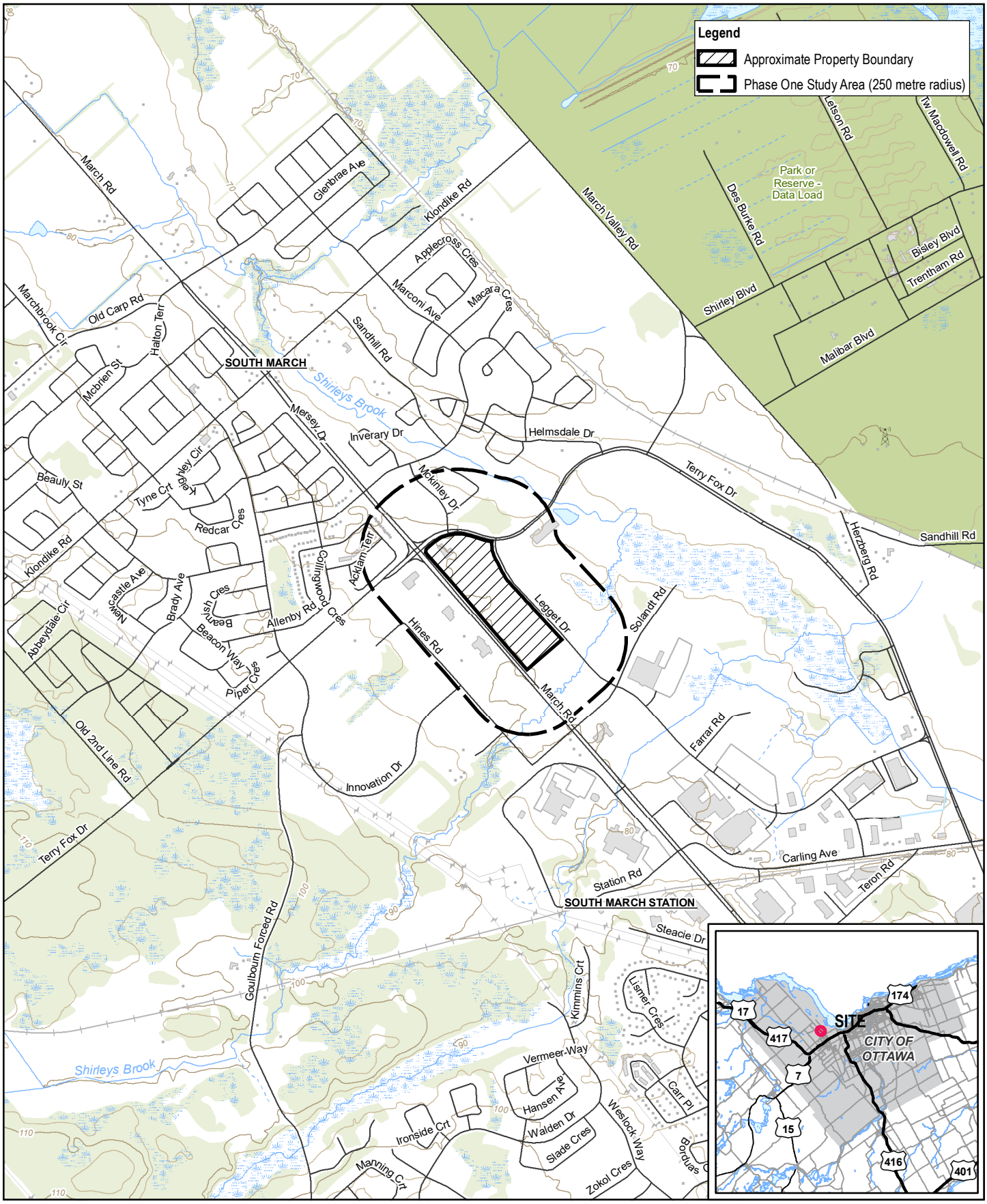
Parameters	Units	MECP Table 7 All Property Types	Maximum GW Concentration	Sample Identification
Physical Tests				
Conductivity	mS/cm	--	7.76	BH17-22
pH	-	--	8.11	BH01-22
Anions and Nutrients				
Chloride	ug/L	1800000	**2820000**	BH17-22
Cyanides				
Cyanide	ug/L	52	<2.0	ALL
Dissolved Metals				
Antimony	ug/L	16000	ND(1.0)	ALL
Arsenic	ug/L	1500	ND(1.0)	ALL
Barium	ug/L	23000	573	BH17-22
Beryllium	ug/L	53	ND(0.200)	ALL
Boron	ug/L	36000	ND(100)	ALL
Cadmium	ug/L	2.1	0.799	BH17-22
Chromium	ug/L	640	ND(5.0)	ALL
Cobalt	ug/L	52	2.78	BH11-22
Copper	ug/L	69	3.75	BH17-22
Lead	ug/L	20	ND(0.500)	ALL
Mercury	ug/L	0.1	ND(0.0050)	ALL
Molybdenum	ug/L	7300	17.4	BH11-22
Nickel	ug/L	390	9.96	BH11-22
Selenium	ug/L	50	0.914	BH12-22
Silver	ug/L	1.2	ND(0.100)	ALL
Sodium	ug/L	1800000	1570000	BH17-22
Thallium	ug/L	400	ND(0.100)	ALL
Uranium	ug/L	330	10.4	BH12-22
Vanadium	ug/L	200	ND(5.0)	ALL
Zinc	ug/L	890	ND(10.0)	ALL
Hexavalent Chromium	ug/L	110	ND(0.50)	ALL
Volatile Organic Compounds				
Acetone	ug/L	100000	ND(0.20)	ALL
Benzene	ug/L	0.5	ND(0.50)	ALL
Bromodichloromethane	ug/L	67000	ND(0.50)	ALL
Bromoform	ug/L	5	ND(0.50)	ALL
Bromomethane	ug/L	0.89	ND(0.50)	ALL
Carbon Tetrachloride	ug/L	0.2	ND(0.20)	ALL
Chlorobenzene	ug/L	140	ND(0.50)	ALL
Chloroform	ug/L	2	ND(0.50)	ALL
Dibromochloromethane	ug/L	65000	ND(0.50)	ALL
1,2-Dibromoethane	ug/L	0.2	ND(0.20)	ALL
1,2-Dichlorobenzene	ug/L	150	ND(0.50)	ALL
1,3-Dichlorobenzene	ug/L	7600	ND(0.50)	ALL
1,4-Dichlorobenzene	ug/L	0.5	ND(0.50)	ALL
Dichlorodifluoromethane	ug/L	3500	ND(0.50)	ALL
1,1-Dichloroethane	ug/L	11	ND(0.50)	ALL
1,2-Dichloroethane	ug/L	0.5	ND(0.50)	ALL
1,1-Dichloroethylene	ug/L	0.5	ND(0.50)	ALL
cis-1,2-Dichloroethylene	ug/L	1.6	ND(0.50)	ALL
trans-1,2-Dichloroethylene	ug/L	1.6	ND(0.50)	ALL
Dichloromethane	ug/L	--	ND(1.0)	ALL
1,2-Dichloropropane	ug/L	0.58	ND(0.50)	ALL
cis+trans-1,3-Dichloropropylene	ug/L	0.5	ND(0.50)	ALL
cis-1,3-Dichloropropylene	ug/L	--	ND(0.30)	ALL
trans-1,3-Dichloropropylene	ug/L	--	ND(0.30)	ALL
Ethylbenzene	ug/L	54	ND(0.50)	ALL

Maximum Groundwater Parameter Concentrations
Phase Two Environmental Site Assessment
600 March Road, Ottawa, Ontario

Parameters	Units	MECP Table 7 All Property Types	Maximum GW Concentration	Sample Identification
Hexane (n)	ug/L	5	ND(0.50)	ALL
Methyl Ethyl Ketone [MEK]	ug/L	21000	ND(20)	ALL
Methyl Isobutyl Ketone [MIBK]	ug/L	5200	ND(20)	ALL
Methyl-Tert-Butyl Ether [MTBE]	ug/L	15	ND(0.50)	ALL
Styrene	ug/L	43	ND(0.50)	ALL
1,1,1,2-Tetrachloroethane	ug/L	1.1	ND(0.50)	ALL
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND(0.50)	ALL
Tetrachloroethylene	ug/L	0.5	ND(0.50)	ALL
Toluene	ug/L	320	ND(0.50)	ALL
1,1,1-Trichloroethane	ug/L	23	ND(0.50)	ALL
1,1,2-Trichloroethane	ug/L	0.5	ND(0.50)	ALL
Trichloroethylene	ug/L	0.5	ND(0.50)	ALL
Trichlorofluoromethane	ug/L	2000	ND(0.50)	ALL
Vinyl Chloride	ug/L	0.5	ND(0.50)	ALL
m+p-Xylene	ug/L	--	ND(0.40)	ALL
o-Xylene	ug/L	--	ND(0.30)	ALL
Total Xylenes	ug/L	72	ND(0.50)	ALL
Total BTEX	ug/L		ND(1.0)	ALL
Hydrocarbons				
F1 (C6-C10)	ug/L	420	ND(25)	ALL
F1-BTEX	ug/L	420	ND(25)	ALL
F2 (C10-C16)	ug/L	150	ND(100)	ALL
F2-naphthalene	ug/L	--	ND(100)	ALL
F3 (C16-C34)	ug/L	500	280	BH10-22
F3-PAH	ug/L	--	ND(250)	ALL
F4 (C34-C50)	ug/L	500	ND(250)	ALL
Total Hydrocarbons (C6-C50)	ug/L	--	ND(370)	ALL
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	ug/L	17	0.045	BH17-22
Acenaphthylene	ug/L	1	ND(0.010)	ALL
Anthracene	ug/L	1	0.04	BH12-22
Benz(a)anthracene	ug/L	1.8	ND(0.010)	ALL
Benzo(a)pyrene	ug/L	0.81	ND(0.0050)	ALL
Benzo(b+j)fluoranthene	ug/L	0.75	ND(0.010)	ALL
Benzo(g,h,i)perylene	ug/L	0.2	ND(0.010)	ALL
Benzo(k)fluoranthene	ug/L	0.4	ND(0.010)	ALL
Chrysene	ug/L	0.7	0.016	BH01-22
Dibenz(a,h)anthracene	ug/L	0.4	ND(0.0050)	ALL
Fluoranthene	ug/L	44	0.117	BH12-22
Fluorene	ug/L	290	0.074	BH17-22
Indeno(1,2,3-c,d)pyrene	ug/L	0.2	ND(0.010)	ALL
1+2-Methylnaphthalene	ug/L	1500	0.224	BH17-22
1-Methylnaphthalene	ug/L	1500	0.144	BH17-22
2-Methylnaphthalene	ug/L	1500	0.08	BH17-22
Naphthalene	ug/L	7	ND(0.050)	ALL
Phenanthrene	ug/L	380	0.638	BH17-22
Pyrene	ug/L	5.7	0.108	BH12-22

Notes:
µg/L - microgram per litre
ND (0.020) - Not detected at the associated method detection limit
Bold/Border - Detected concentration exceeds the associated MECP Table 7 Standard
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Figures



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

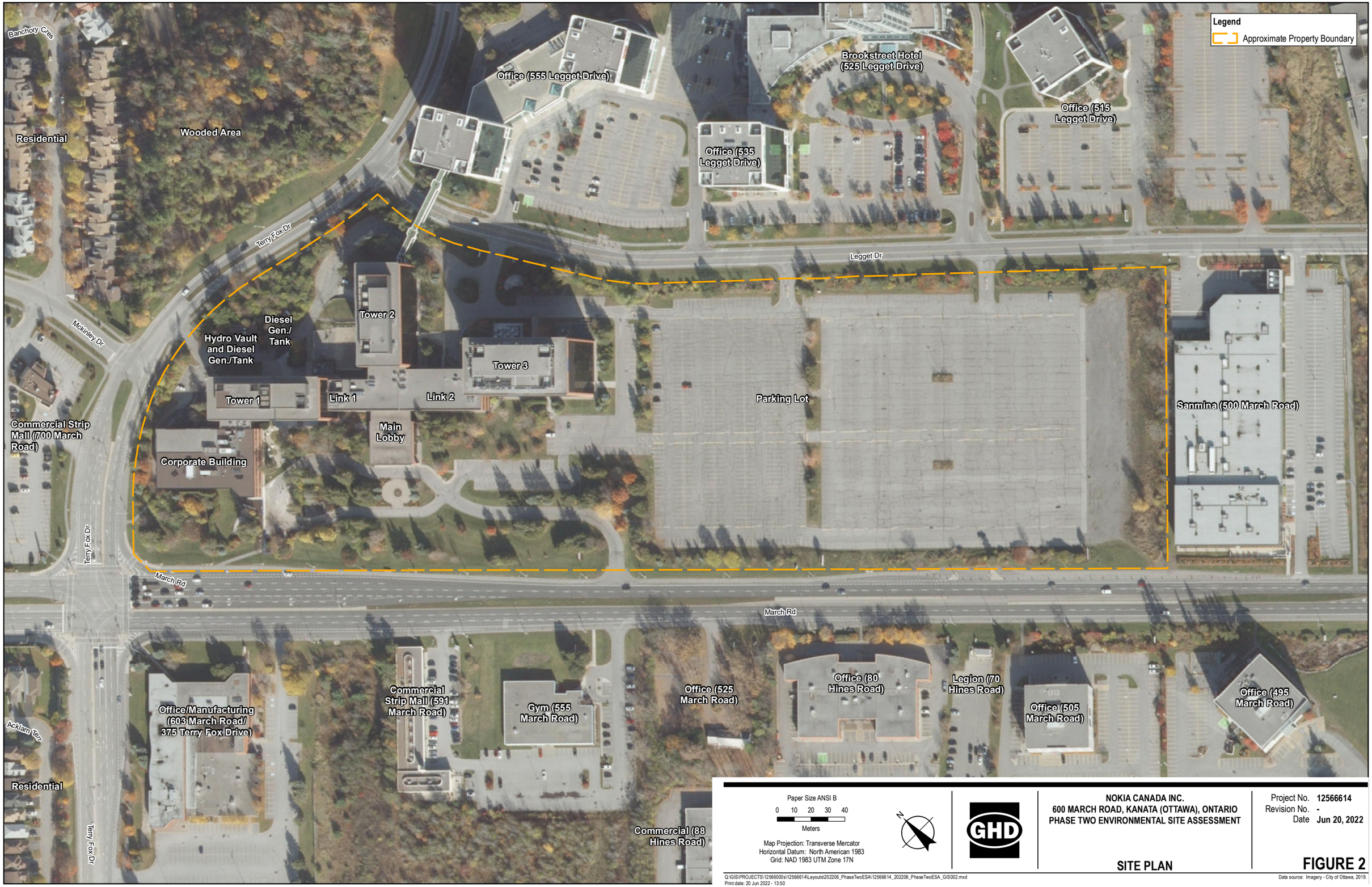
Project No. **12566614**
Revision No. **-**
Date **Jun 20, 2022**

SITE LOCATION MAP

FIGURE 1

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Print date: 20 Jun 2022 - 13:46

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry. © Queen's Printer 2022.



Paper Size ANSI B

0 10 20 30 40

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

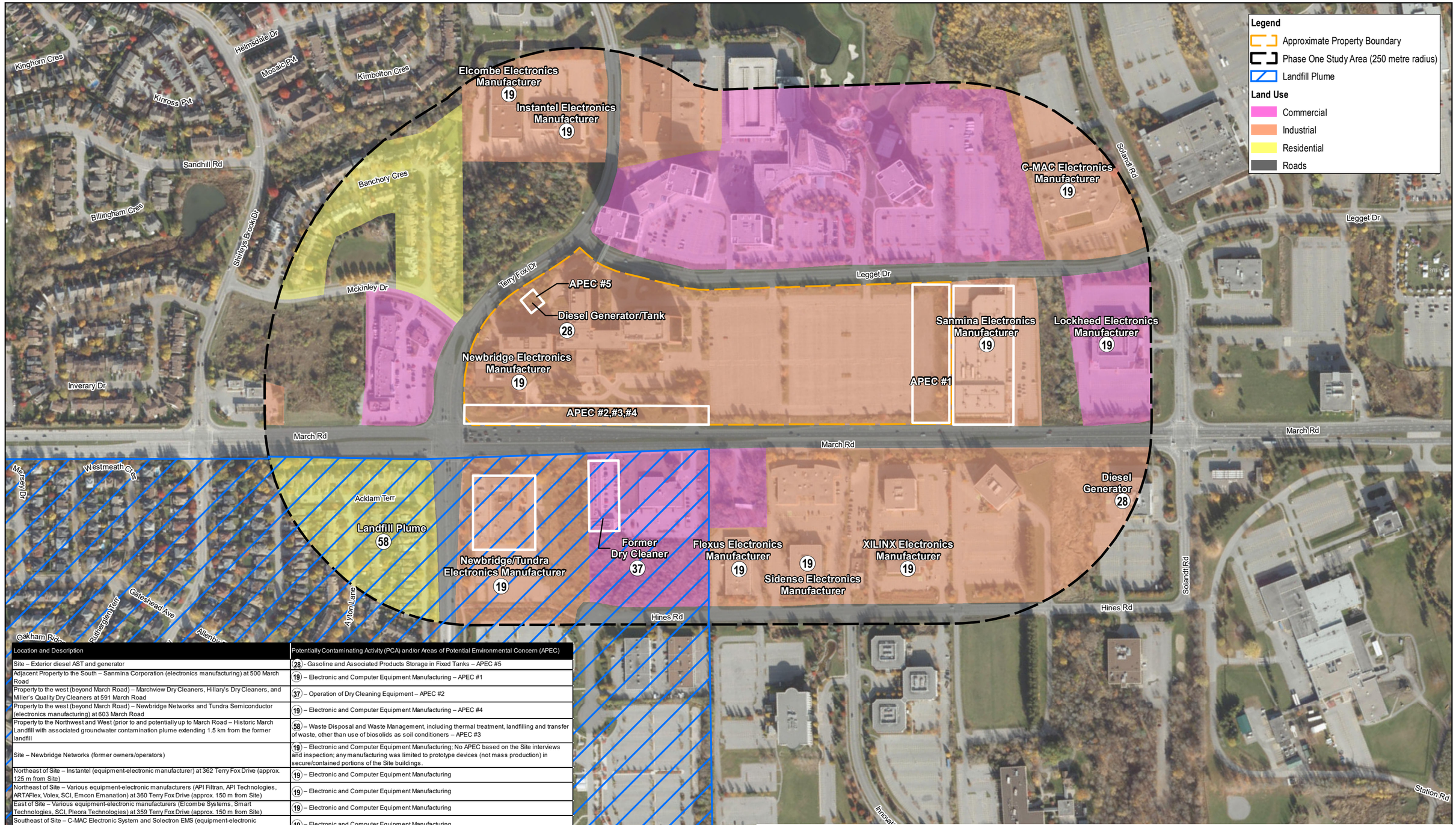
SITE PLAN

Project No. **12566614**
Revision No. **-**
Date **Jun 20, 2022**

FIGURE 2

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Print date: 20 Jun 2022 - 13:50

Data source: Imagery - City of Ottawa, 2019.



Location and Description	Potentially Contaminating Activity (PCA) and/or Areas of Potential Environmental Concern (APEC)
Site – Exterior diesel AST and generator	28 - Gasoline and Associated Products Storage in Fixed Tanks – APEC #5
Adjacent Property to the South – Sanmina Corporation (electronics manufacturing) at 500 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #1
Property to the west (beyond March Road) – Marchview Dry Cleaners, Hillary's Dry Cleaners, and Miller's Quality Dry Cleaners at 591 March Road	37 – Operation of Dry Cleaning Equipment – APEC #2
Property to the west (beyond March Road) – Newbridge Networks and Tundra Semiconductor (electronics manufacturing) at 603 March Road	19 – Electronic and Computer Equipment Manufacturing – APEC #4
Property to the Northwest and West (prior to and potentially up to March Road – Historic March Landfill with associated groundwater contamination plume extending 1.5 km from the former landfill	58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners – APEC #3
Site – Newbridge Networks (former owners/operators)	19 – Electronic and Computer Equipment Manufacturing; No APEC based on the Site interviews and inspection; any manufacturing was limited to prototype devices (not mass production) in secure/contained portions of the Site buildings.
Northeast of Site – Instantel (equipment-electronic manufacturer) at 362 Terry Fox Drive (approx. 125 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Northeast of Site – Various equipment-electronic manufacturers (API Filtran, API Technologies, ARTAFlex, Volex, SCI, Emcon Emanation) at 360 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
East of Site – Various equipment-electronic manufacturers (Elcombe Systems, Smart Technologies, SCI, Pleora Technologies) at 359 Terry Fox Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
Southeast of Site – C-MAC Electronic System and Solectron EMS (equipment-electronic manufacturers) at 425 Legget Drive (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of Site – Lockheed Canada and Lockheed Martin Canada (equipment-electronic manufacturers) at 3001 Solandt Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (XILINX, Excalibur Systems, DRS EW & Network Systems, OneChip Photonics) at 50 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Sidense (equipment-electronics manufacturer) at 84 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
West of Site – Various equipment-electronic manufacturers (Flexus, Telemus, Ultra Electronics) at 88 Hines Road (approx. 150 m from Site)	19 – Electronic and Computer Equipment Manufacturing
South of the Site – standby emergency diesel generator at 495 March Road (approx. 200 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks
North of the Site – Shell Gas Station at 720 March Road (approx. 225 m from Site)	28 - Gasoline and Associated Products Storage in Fixed Tanks

Paper Size ANSI B

0 30 60 90 120

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA (OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

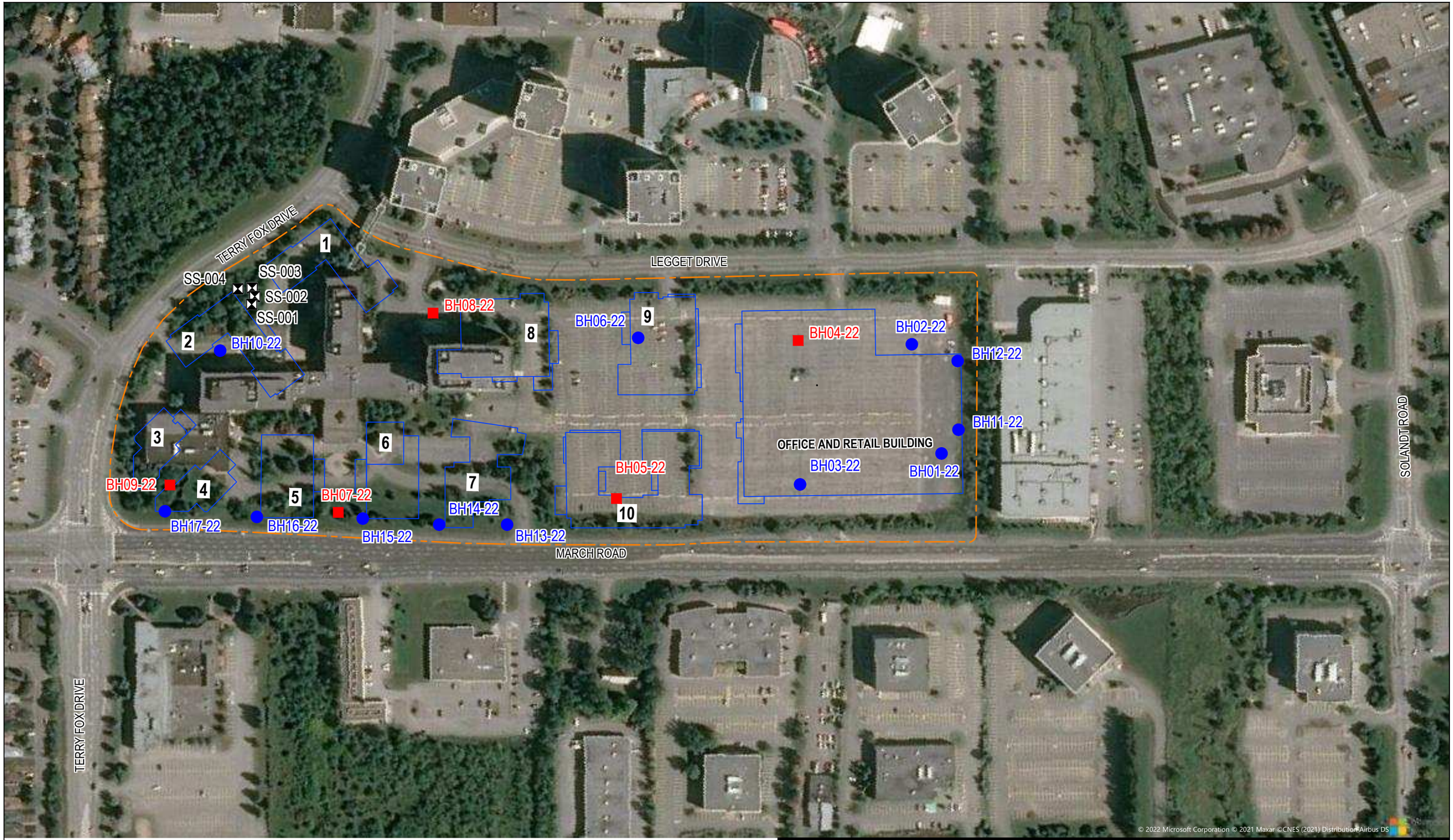
PHASE ONE CONCEPTUAL SITE MODEL

Project No. **12566614**
Revision No. **-**
Date **Jun 30, 2022**

FIGURE 3

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Data source: Imagery - City of Ottawa, 2019.



LEGEND

- PROPERTY BOUNDARY
- PROPOSED BUILDING OUTLINE
- BOREHOLE LOCATION
- MONITORING WELL
- SOIL SAMPLING LOCATION

1 BUILDING NUMBER

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum,
Zone 18, Meter;

GHD

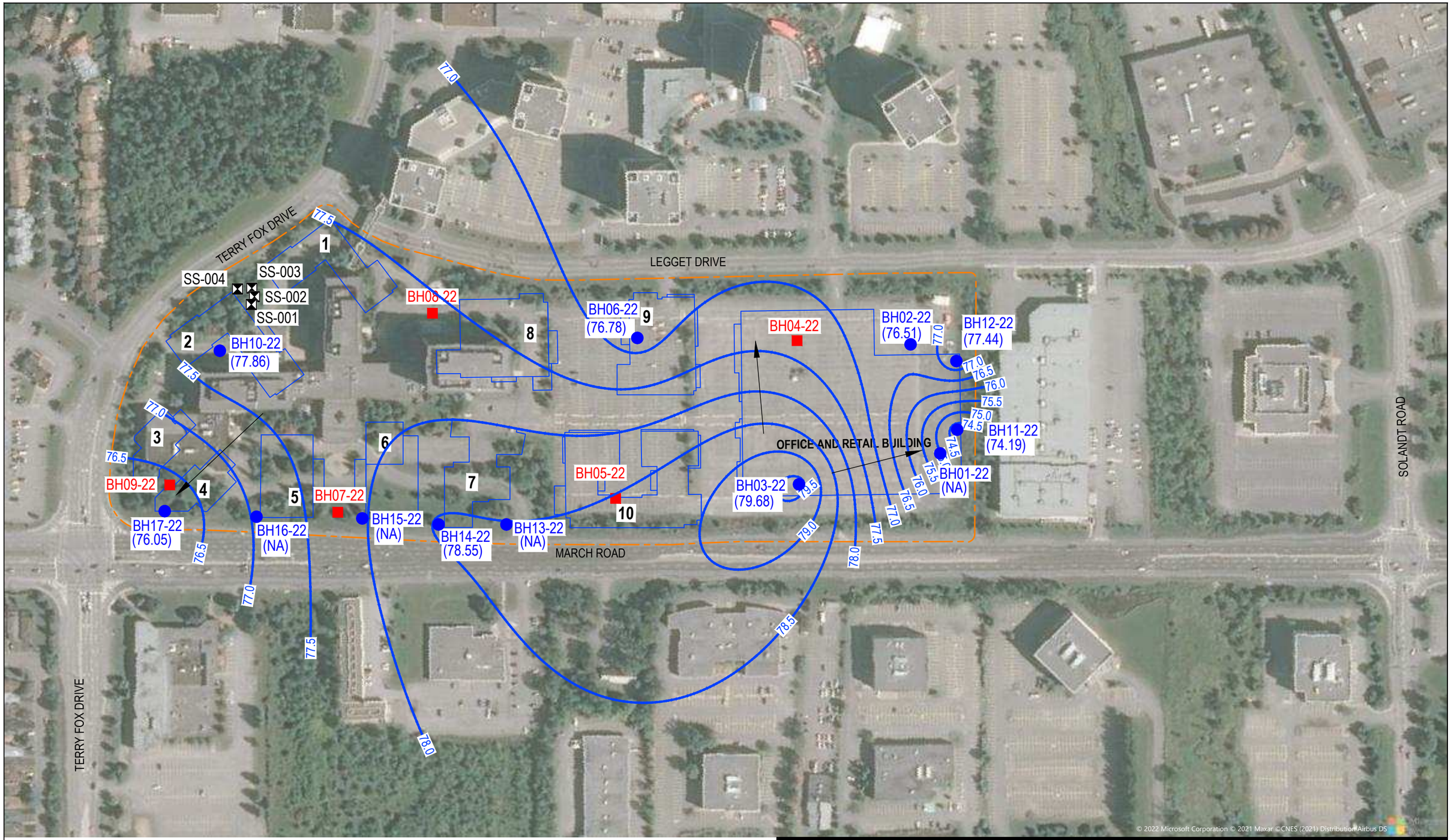
NOKIA CANADA INC.
600 MARCH ROAD, KANATA(OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

BOREHOLE LOCATION PLAN

Project No. **12566614**
Date **June 2022**

FIGURE 4

Filename: \\ghdnet\ghd\CA\Ottawa\Projects\661\12566614\Digital_Design\ACAD\Figures\RPT003\12566614-GHD-0000-RPT-EN-0102_OT-003.DWG
Plot Date: 30 June 2022 2:51 PM



LEGEND

- PROPERTY BOUNDARY
- PROPOSED BUILDING OUTLINE
- BOREHOLE LOCATION
- MONITORING WELL
- SOIL SAMPLING LOCATION
- 1 BUILDING NUMBER
- 79.5 GROUNDWATER POTENTIOMETRIC ELEVATION CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- (76.05) GROUNDWATER ELEVATION (mAMSL)
- (NA) NOT APPLICABLE

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum,
Zone 18, Meter;

GHD

NOKIA CANADA INC.
600 MARCH ROAD, KANATA(OTTAWA), ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

BEDROCK GROUNDWATER ELEVATIONS AND FLOW DIRECTION

Project No. **12566614**
Date **June 2022**

FIGURE 5

Filename: \\ghdnet\ghd\CA\Ottawa\Projects\661\12566614\Digital_Design\ACAD\Figures\RPT003\12566614-GHD-0000-RPT-EN-0101_OT-003.DWG
Plot Date: 30 June 2022 2:56 PM

Appendices

Appendix A

Borehole Logs

Notes on Borehole and Test Pit Reports

Soil description :

Each subsurface stratum is described using the following terminology. The relative density of granular soils is determined by the Standard Penetration Index ("N" value), while the consistency of clayey sols is measured by the value of undrained shear strength (Cu).

Classification (Unified system)

Clay	< 0.002 mm		
Silt	0.002 to 0.075 mm		
Sand	0.075 to 4.75 mm	fine	0.075 to 4.25 mm
		medium	0.425 to 2.0 mm
		coarse	2.0 to 4.75 mm
Gravel	4.75 to 75 mm	fine	4.75 to 19 mm
		coarse	19 to 75 mm
Cobbles	75 to 300 mm		
Boulders	>300 mm		

Terminology

"trace"	1-10%
"some"	10-20%
adjective (silty, sandy)	20-35%
"and"	35-50%

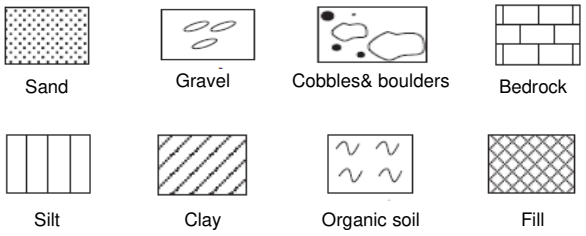
Relative density of granular soils	Standard penetration index "N" value (BLOWS/ft – 300 mm)
Very loose	0-4
Loose	4-10
Compact	10-30
Dense	30-50
Very dense	>50

Consistency of cohesive soils	Undrained shear strength (Cu) (P.S.F)	(kPa)
Very soft	<250	<12
Soft	250-500	12-25
Firm	500-1000	25-50
Stiff	1000-2000	50-100
Very stiff	2000-4000	100-200
Hard	>4000	>200

Rock quality designation

"RQD" (%) Value	Quality
<25	Very poor
25-50	Poor
50-75	Fair
75-90	Good
>90	Excellent

STRATIGRAPHIC LEGEND



Samples:

Type and Number

The type of sample recovered is shown on the log by the abbreviation listed hereafter. The numbering of samples is sequential for each type of sample.

SS: Split spoon
ST: Shelby tube
AG: Auger
SSE, GSE, AGE: Environmental sampling
PS: Piston sample (Osterberg)
RC: Rock core
GS: Grab sample

Recovery

The recovery, shown as a percentage, is the ratio of length of the sample obtained to the distance the sampler was driven/pushed into the soil

RQD

The "Rock Quality Designation" or "RQD" value, expressed as percentage, is the ratio of the total length of all core fragments of 4 inches (10 cm) or more to the total length of the run.

IN-SITU TESTS:

N: Standard penetration index
R: Refusal to penetration
N_c: Dynamic cone penetration index
Cu: Undrained shear strength
Pr: Pressure meter
k: Permeability
ABS: Absorption (Packer test)

LABORATORY TESTS:

I_p: Plasticity index
W_l: Liquid limit
Wp: Plastic limit
H: Hydrometer analysis
GSA: Grain size analysis
A: Atterberg limits
w: Water content
γ: Unit weight
C: Consolidation
CS: Swedish fall cone
CHEM: Chemical analysis
O.V.: Organic vapor

REFERENCE No.: 12566614

BOREHOLE REPORT

Page 1 of 1

BOREHOLE No.: BH01-22

ELEVATION: 80.2 m (GEODETIC)

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 28 January 2022 DATE (FINISH): 28 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021740.104 EASTING: 428002.481 ELEVATION: 80.2

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	
0				FILL - Gravelly silty SAND, some clay, greyish brown, moist, dense		GS1	29-37-22-12		--	13	--	--	Sand and Concrete; 0.3 m
1	0.5												
2	0.6	79.6		CLAY, greyish brown, moist, very stiff to stiff									Bentonite
3	1.0					SS1			100.0	36	2-4-5-5	9	
4													1.4 m
5	1.5			grey, moist to wet, stiff					--	--	--	--	Sand; 1.4
6	2.0												2.0 m
7													
8	2.5					SS2			100.0	54	2-2-2-2	4	
9													Screen
10	3.0								--	--	--	--	2.3
11													
12	3.5 3.6	76.6		END OF BOREHOLE (Auger Refusal)									3.6 m
13	4.0			NOTE: 1. Borehole dry upon completion of drilling. 2. Borehole dry on February 3, 2022.									
14													
15	4.5												
16													

△ Undisturbed Vane Value (kPa)
□ Remoulded Field Vane Value (kPa)
△³ Number refer to Sensitivity
○ Water content (%)
Atterberg limits (%) W_p W_l
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\66\12566614\TECH\GINT LOGS\12566614 LOG.GPJ Library File: 12566614 GHD_GEOTECH_V10.GLB Report: 12566614 SOIL LOG Date: 24/3/22

REFERENCE No.: 12566614

BOREHOLE No.: BH02-22

ELEVATION: 79.7 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 31 January 2022 DATE (FINISH): 1 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021805.708 EASTING: 428046.309 ELEVATION: 79.7

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
0	0.1	79.6		ASPHALT										Sand and Concrete 0.2 m
1				FILL - GRAVEL, some sand and silt, grey, moist, dense		GS1			--	--	--	--		
	0.5													
2	0.6	79.1		CLAY, some silt, trace sand and gravel, greyish brown, moist, stiff										
3	1.0					SS1	2-5-48-45		83.3	29	9-6-7-7	13	● ⊖	
4														
5	1.5								--	--	--	--	△	
6														
7	2.0													
8	2.4	77.3				SS2			0.0	--	50/102mm	50/102 mm		
	2.5			DOLOMITIC SANDSTONE, grey, slightly weathered, excellent to fair qullity										Bentonite
9						Run1			100	--	91	100		
10	3.0													
11				joint, perpendicular to core axis		Run2			100	--	68	89		
12	3.5													
13	4.0													2/3/2022 ▼
				joint, perpendicular to core axis		Run3			95	--	84	92		
14														
15	4.5													
16														4.9 m

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REFERENCE No.: 12566614

BOREHOLE No.: BH02-22

ELEVATION: 79.7 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 31 January 2022 DATE (FINISH): 1 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021805.708 EASTING: 428046.309 ELEVATION: 79.7

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%)	Moisture Content %	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	△ Undisturbed Vane Value (kPa) □ Remoulded Field Vane Value (kPa) △³ Number refer to Sensitivity ○ Water content (%) Atterberg limits (W_p W_l) ● "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE										
17														Sand
18	5.5													5.5 m
19						Run4			100	--	73	94		
20	6.0			joint, approximately 30 degrees to core axis										
21														
22	6.5													
23														Screen
24	7.0					Run5		122.5	100	--	63	98		
25														
26	7.5													
27	8.0					Run6			83	--	76	83		
28	8.5													8.5 m
	8.6	71.1		END OF BOREHOLE										8.6 m
29				NOTE: 1. Water level at a depth of 3.88 m (Elev. 75.84 m) below ground surface on February 3, 2022.										
30	9.0													
31	9.5													
32														

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REFERENCE No.: 12566614

BOREHOLE No.: BH03-22

ELEVATION: 80.7 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 28 January 2022 DATE (FINISH): 31 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021800.342 EASTING: 427921.429 ELEVATION: 80.7

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	
0				ASHPHALT									Sand and Concrete
	0.1	80.6		FILL - Sandy GRAVEL, some silt, trace clay, greyish brown, moist, dense		GS1	45-29-18-8		--	10	--	--	0.2 m
1													
	0.5												
2	0.6	80.1		Silty CLAY, some sand, trace gravel, greyish brown, moist, stiff									Bentonite
3													
	1.0					SS1	1-28-(71)		95.8	30	4-5-5-5	10	
4													1.2 m
	1.4	79.3		DOLOMITIC SANDSTONE, light grey with yellow bands, slightly weathered, excellent quality									Sand
5	1.5												1.5 m
													2/3/2022
6						Run1			100	--	100	100	
	2.0												
7													Screen
8	2.5					Run2		91.1	100	--	100	100	
9													
10	3.0	77.7		END OF BOREHOLE									3.0 m
				NOTE: 1. Water level at a depth of 1.55 m (Elev. 79.15 m) below ground surface on February 3, 2022.									
11													
	3.5												
12													
13	4.0												
14													
	4.5												
15													
16													

△ Undisturbed Vane Value (kPa)
□ Remoulded Field Vane Value (kPa)
△³ Number refer to Sensitivity
○ Water content (%)
Atterberg limits (%) W_p W_l
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

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REFERENCE No.: 12566614

BOREHOLE No.: BH04-22

ELEVATION: 79.8 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 28 January 2022 DATE (FINISH): 28 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021867.201 EASTING: 427996.294 ELEVATION: 79.8

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
0	0.1	79.7		ASPHALT										
1				FILL - Gravelly SAND, some silt and clay, grey, moist, dense		GS1	23-58-(19)		--	--	--	--		
	0.5													
2	0.6	79.2		Silty CLAY, some sand, greyish brown, moist, stiff										
3	1.0					SS1	0-10-44-46		77.0	29	5-6-7-7	13	● ○	
4														
5	1.5								--	--	--	--	△4.0 □	
	1.7	78.1		END OF BOREHOLE (Auger Refusal)										
6	2.0													
7														
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

BOREHOLE No.: BH05-22
ELEVATION: 81.1 m (GEODETIC)

CLIENT: Nokia
PROJECT: Geotechnical Investigation-Nokia Campus Rezoning
LOCATION: 570 and 600 March Road, Ottawa, Ontario
DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani
DATE (START): 1 February 2022 DATE (FINISH): 1 February 2022

LEGEND
- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021890.495 EASTING: 427830.004 ELEVATION: 81.1

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unconfined Compressive Strength	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
0	0.1	81.0		ASPHALT										
1	0.5			FILL - Sandy SILT, some gravel, greyish brown, moist, dense		GS1			--	--	--	--		
2	0.6	80.5		CLAY, some silt and sand, trace gravel, greyish brown, moist, firm to stiff		SS1	1-15-50-34		100.0	23	13-50/76mm	50/76 mm		
3	0.9	80.2		END OF BOREHOLE (Auger Refusal)										
	1.0													
4														
5	1.5													
6														
7	2.0													
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

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BOREHOLE No.: BH06-22

ELEVATION: 79.6 m (GEODETIC)

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 2 February 2022 DATE (FINISH): 2 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5021952.611 EASTING: 427924.443 ELEVATION: 79.6

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%)	Moisture Content %	Blows per 15cm/ RQD(%) %	'N' Value SCR(%) %	Undisturbed Vane Value (kPa); Remoulded Field Vane Value (kPa); Number refer to Sensitivity; Water content (%); Atterberg limits (%); "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE										
	0.1	79.5		ASPHALT										Sand and Concrete 0.2 m
1				FILL - Sandy SILT, some gravel, brown, moist, dense		GS1			--	--	--	--		
	0.4	79.2												
	0.5			DOLOMITIC SANDSTONE, light grey with yellow bands, fresh, good quality										
2														Bentonite
3	1.0													
4						Run1			97	--	87	97		
5	1.5													1.5 m
6														Sand
	2.0													
7														2.1 m
8	2.5													
9						Run2		94.2	90	--	75	90		Screen 2/3/2022
10	3.0													
11														
	3.5													
12	3.6	76.0		END OF BOREHOLE										3.6 m
				NOTE: 1. Water level at a depth of 2.86 m (Elev. 79.15 m) below ground surface on February 3, 2022.										
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

BOREHOLE No.: BH07-22
ELEVATION: 82.5 m (GEODETIC)

CLIENT: Nokia
PROJECT: Geotechnical Investigation-Nokia Campus Rezoning
LOCATION: 570 and 600 March Road, Ottawa, Ontario
DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani
DATE (START): 31 January 2022 DATE (FINISH): 31 January 2022

LEGEND
- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022030.466 EASTING: 427695.319 ELEVATION: 82.5

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel / Sand / Silt / Clay (%)	Unconfined Compressive Strength (MPa)	Recovery/ TCR(%)	Moisture Content (%)	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
1	0.5			TOPSOIL - Clayey SILT, contains rootlets and organic matter, dark brown, moist		GS1			--	--	--	--		
2	0.6	81.9		Silty CLAY to Clayey SILT, some sand and gravel, dark brown, moist, soft, organics matter		SS1			41.7	--	3-5-50/0	>50		
3	1.0	81.5		DOLOMITIC SANDSTONE, slightly weathered, light grey to grey with yellow bands, fair to good quality		Run1			100	--	66	100		
4														
5	1.5													
6														
7	2.0													
8	2.5					Run2			96	--	89	96		
9														
10	3.0													
11														
12	3.5					Run3		111.8	100	--	88	88		
13	4.0													
	4.1	78.4		END OF BOREHOLE										
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE No.: BH08-22

ELEVATION: 79.8 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 2 February 2022 DATE (FINISH): 2 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022071.843 EASTING: 427843.613 ELEVATION: 79.8

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%) %	Moisture Content %	Blows per 15cm/ RQD(%) %	'N' Value SCR(%) %	△ Undisturbed Vane Value (kPa) □ Remoulded Field Vane Value (kPa) △³ Number refer to Sensitivity ○ Water content (%) Atterberg limits (W_p W_l) ● "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
0	0.1	79.7		ASPHALT										
1	0.5			FILL - Sandy SILT, trace gravel, greyish brown, moist, dense		GS1			--	--	--	--		
2	0.6	79.2		END OF BOREHOLE (Auger Refusal)										
3	1.0													
4														
5	1.5													
6														
7	2.0													
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE REPORT

Page 1 of 1

BOREHOLE No.: BH09-22

ELEVATION: 82.1 m (GEODETIC)

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 31 January 2022 DATE (FINISH): 31 January 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022131.544 EASTING: 427632.69 ELEVATION: 82.1

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel / Sand / Silt / Clay (%)	Unconfined Compressive Strength (MPa)	Recovery/ TCR(%)	Moisture Content (%)	Blows per 15cm/ RQD(%)	'N' Value SCR(%)	Undisturbed Vane Value (kPa) / Remoulded Field Vane Value (kPa) / Number refer to Sensitivity / Water content (%) / Atterberg limits (%) / "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE			%	MPa	%	%	%	%	10 20 30 40 50 60 70 80 90	
1	0.5			TOPSOIL- SILT, trace sand and gravel, contains rootlets and organic matter, dark brown, moist		GS1			--	--	--	--		
2														
3	0.9	81.2				SS1			25.0	--	2-50/0mm	>50		
	1.0			END OF BOREHOLE (Auger Refusal)										
4														
5	1.5													
6														
7	2.0													
8	2.5													
9														
10	3.0													
11														
12	3.5													
13	4.0													
14														
15	4.5													
16														

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REFERENCE No.: 12566614

BOREHOLE No.: BH10-22

ELEVATION: 80.4 m (GEODETIC)

BOREHOLE REPORT

CLIENT: Nokia

PROJECT: Geotechnical Investigation-Nokia Campus Rezoning

LOCATION: 570 and 600 March Road, Ottawa, Ontario

DESCRIBED BY: Dathon Ash CHECKED BY: Sahar Soleimani

DATE (START): 2 February 2022 DATE (FINISH): 2 February 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- GS - GRAB SAMPLE
- ▼ - WATER LEVEL

NORTHING: 5022166.631 EASTING: 427726.321 ELEVATION: 80.4

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unconfined Compressive Strength MPa	Recovery/ TCR(%) %	Moisture Content %	Blows per 15cm/ RQD(%) %	'N' Value SCR(%) %	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE									
	0.1	80.3		ASPHALT									Sand and Concrete 0.2 m
1				FILL - Sandy SILT, some gravel, brown, moist, dense		GS1			--	--	--	--	
	0.5												
2													
3	0.9	79.5				SS1			0.0	--	50/152mm	50/152 mm	
	1.0			DOLOMITIC SANDSTONE, slightly weathered, excellent to fair quality									Bentonite
4													
5	1.5			joint, perpendicular to core axis		Run1		113.3	100	--	81	100	
6													
	2.0												1.9 m
7													Sand
8	2.5												2.5 m
9						Run2			100	--	95	100	
10	3.0												2/3/2022
11													Screen
	3.5												
12						Run3			50	--	36	50	
13	4.0												
	4.1	76.3		END OF BOREHOLE									4.1 m
14				NOTE: 1. Water level at a depth of 3.00 m (Elev. 77.43 m) below ground surface on February 3, 2022.									
	4.5												
15													
16													

△ Undisturbed Vane Value (kPa)
□ Remoulded Field Vane Value (kPa)
△³ Number refer to Sensitivity
○ Water content (%)
Atterberg limits (%) W_p W_l
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH11-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	80.21					
	TOP OF RISER	80.12					
0.5	TOPSOIL, silt with gravel, well graded, brown, trace organics		Sand				
	SILTY CLAY, well graded, dark brown, moist	79.60					
1.0							
1.5							
2.0							
	CLAY, well graded, dense, grey-brown, moist	78.07	Bentonite				
2.5							
3.0	- trace gravel from 3.05 to 3.66m BGS						
3.5							
	- sand from 3.81 to 4.57m BGS						
4.0							
4.5							
	TILL, gravel, trace clay, grey, very moist	75.64					
	BEDROCK	75.48					
5.0							
5.5							
6.0			Sand Pack				
			Well Screen				
6.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH11-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
7.5							
8.0	END OF BOREHOLE @ 7.92m BGS	72.28	WELL DETAILS Screened interval: 75.33 to 72.28mAMSL 4.88 to 7.92m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 75.94 to 72.28mAMSL 4.27 to 7.92m BGS Material: Silica				
8.5							
9.0							
9.5							
10.0							
10.5							
11.0							
11.5							
12.0							
12.5							
13.0							
13.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH12-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	79.60					
	TOP OF RISER	79.49					
0.5	TOPSOIL, silt, trace sand, trace gravel, loose, dark brown, organics		Sand				
		78.99					
1.0	SILTY CLAY, trace sand, well graded, dense, grey-brown, organics						
1.5							
2.0							
2.5			Bentonite				
3.0		76.55					
3.5	CLAYEY SAND, trace till and gravel, brown, moist						
		75.79					
4.0	TILL, trace silty clay, dense, grey, moist						
		75.18					
4.5	BEDROCK						
5.0							
5.5							
6.0			Sand Pack				
6.5			Well Screen				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH12-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
7.5							
8.0	END OF BOREHOLE @ 7.92m BGS	71.67	WELL DETAILS Screened interval: 74.72 to 71.67mAMSL 4.88 to 7.92m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 75.33 to 71.67mAMSL 4.27 to 7.92m BGS Material: Silica				
8.5							
9.0							
9.5							
10.0							
10.5							
11.0							
11.5							
12.0							
12.5							
13.0							
13.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH13-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE TOP OF RISER	81.95 81.83					
0.5	TOPSOIL, silty sand, poorly graded, trace gravel, brown, organics		Sand				
		81.34					
1.0	SANDY SILT, poorly graded, trace till and topsoil, dark brown, trace organics						
		80.58					
1.5	BEDROCK		Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack				
5.0			Well Screen				
5.5							
6.0							
6.5	END OF BOREHOLE @ 6.40m BGS Note: Borehole dry upon completion of drilling	75.55	WELL DETAILS Screened interval: 78.60 to 75.55mAMSL 3.35 to 6.40m BGS				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH13-22

DATE COMPLETED: 11 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	
7.5			Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 79.21 to 75.55mAMSL 2.74 to 6.40m BGS Material: Silica					
8.0								
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH14-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	82.19					
	TOP OF RISER	82.12					
0.5	TOPSOIL, organics, very little recovery		Sand				
1.0	CLAYEY SILT, well graded, trace gravel, brown, organics	81.58					
1.5	BEDROCK, fractured rock	80.97	Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0		76.09					
	END OF BOREHOLE @ 6.10m BGS						
6.5							
7.0							
7.5							

WELL DETAILS
Screened interval:
79.14 to 76.09mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10
Material: PVC
Sand Pack:
79.45 to 76.09mAMSL
2.74 to 6.10m BGS
Material: Silica

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH15-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE TOP OF RISER	81.94 81.88					
0.5	TOPSOIL, well graded, brown, organics, very little recovery		Sand				
1.0	SANDY SILT, topsoil, well graded, trace clay, dark brown	81.33					
1.5	BEDROCK	80.72	Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0	END OF BOREHOLE @ 6.10m BGS Note: Borehole dry upon completion of drilling	75.84					
6.5							
7.0							
7.5							

WELL DETAILS
Screened interval:
78.89 to 75.84mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10
Material: PVC
Sand Pack:
79.20 to 75.84mAMSL
2.74 to 6.10m BGS
Material: Silica

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH16-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE TOP OF RISER	81.49 81.44					
0.5	TOPSOIL, trace sand, loose, brown, organics		Sand				
1.0	BEDROCK	80.57					
1.5			Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0	END OF BOREHOLE @ 6.10m BGS	75.39					
6.5	Note: Borehole dry upon completion of drilling						

WELL DETAILS
Screened interval:
78.44 to 75.39mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH16-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	
7.5			Material: PVC Sand Pack: 78.75 to 75.39mAMSL 2.74 to 6.10m BGS Material: Silica					
8.0								
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH17-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
	GROUND SURFACE	81.48					
	TOP OF RISER	81.41					
0.5	TOPSOIL, silty, trace sand, trace gravel, loose, dark brown, organics		Sand				
1.0	TILL, trace sand, slight orange tint	80.63					
	BEDROCK	80.56					
1.5			Bentonite				
2.0							
2.5							
3.0							
3.5							
4.0							
4.5			Sand Pack Well Screen				
5.0							
5.5							
6.0	END OF BOREHOLE @ 6.10m BGS	75.38					
6.5							

WELL DETAILS
Screened interval:
78.43 to 75.38mAMSL
3.05 to 6.10m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME:

PROJECT NUMBER: 12566614

CLIENT: Nokia Canada Inc.

LOCATION: 600 March Road, Ottawa, Ontario

HOLE DESIGNATION: BH17-22

DATE COMPLETED: 12 May 2022

DRILLING METHOD: Auger/Air hammer

FIELD PERSONNEL: N. Gupta

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. mAMSL	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	
7.5			Material: PVC Sand Pack: 78.74 to 75.38mAMSL 2.74 to 6.10m BGS Material: Silica					
8.0								
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ May 26, 2022

File: \\GHDNET\GHD\CA\OTTAWA\PROJECTS\661\12566614\TECH\GINT LOGS\12566614-ENVIRO.GPJ Library File: GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 30/6/22

Appendix B

Laboratory Certificates of Analysis

GHD Limited (Waterloo)
ATTN: Pascal Renella
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Date Received: 28-APR-22
Report Date: 03-MAY-22 13:17 (MT)
Version: FINAL

Client Phone: 519-884-0510

Certificate of Analysis

Lab Work Order #: L2702132

Project P.O. #: NOT SUBMITTED
Job Reference: 12566614
C of C Numbers: 20-1009502
Legal Site Desc:

Rick Hawthorne
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2702132-1 S-12566614-042822-DA-001 Sampled By: CLIENT on 28-APR-22 @ 10:00 Matrix: SOIL							
Physical Tests							
% Moisture	34.4		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	97.1		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	102.1		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	89.4		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	82.5		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-2 S-12566614-042822-DA-002 Sampled By: CLIENT on 28-APR-22 @ 10:15 Matrix: SOIL							
Physical Tests							
% Moisture	26.5		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.19	DLQ	0.19	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.19		0.19	ug/g		03-MAY-22	
Surrogate: 4-Bromofluorobenzene	106.2		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	103.8		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		03-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		03-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2702132-2 S-12566614-042822-DA-002 Sampled By: CLIENT on 28-APR-22 @ 10:15 Matrix: SOIL							
Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	88.5		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	91.4		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-3 S-12566614-042822-DA-003 Sampled By: CLIENT on 28-APR-22 @ 10:30 Matrix: SOIL							
Physical Tests							
% Moisture	21.4		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	105.0		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	111.4		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	86.2		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	94.3		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-4 S-12566614-042822-DA-004 Sampled By: CLIENT on 28-APR-22 @ 10:40 Matrix: SOIL							
Physical Tests							
% Moisture	19.3		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	104.6		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	107.3		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2702132-4 S-12566614-042822-DA-004 Sampled By: CLIENT on 28-APR-22 @ 10:40 Matrix: SOIL							
Hydrocarbons							
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	89.5		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	79.0		60-140	%	02-MAY-22	03-MAY-22	R5770503
L2702132-5 S-12566614-042822-DA-005 Sampled By: CLIENT on 28-APR-22 @ 10:50 Matrix: SOIL							
Physical Tests							
% Moisture	28.4		0.25	%	30-APR-22	01-MAY-22	R5770108
Volatile Organic Compounds							
Benzene	<0.0068		0.0068	ug/g	02-MAY-22	03-MAY-22	R5770503
Ethylbenzene	<0.018		0.018	ug/g	02-MAY-22	03-MAY-22	R5770503
Toluene	<0.080		0.080	ug/g	02-MAY-22	03-MAY-22	R5770503
o-Xylene	<0.020		0.020	ug/g	02-MAY-22	03-MAY-22	R5770503
m+p-Xylenes	<0.030		0.030	ug/g	02-MAY-22	03-MAY-22	R5770503
Xylenes (Total)	<0.050		0.050	ug/g		02-MAY-22	
Surrogate: 4-Bromofluorobenzene	101.4		50-140	%	02-MAY-22	03-MAY-22	R5770503
Surrogate: 1,4-Difluorobenzene	104.5		50-140	%	02-MAY-22	03-MAY-22	R5770503
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	02-MAY-22	03-MAY-22	R5770503
F1-BTEX	<5.0		5.0	ug/g		02-MAY-22	
F2 (C10-C16)	<10		10	ug/g	29-APR-22	02-MAY-22	R5770400
F3 (C16-C34)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
F4 (C34-C50)	<50		50	ug/g	29-APR-22	02-MAY-22	R5770400
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-MAY-22	
Chrom. to baseline at nC50	YES				29-APR-22	02-MAY-22	R5770400
Surrogate: 2-Bromobenzotrifluoride	86.6		60-140	%	29-APR-22	02-MAY-22	R5770400
Surrogate: 3,4-Dichlorotoluene	81.8		60-140	%	02-MAY-22	03-MAY-22	R5770503

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011 and as of November 30, 2020), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)

Reference Information

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

20-1009502

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Pascal Renella

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	Soil							
Batch R5770503								
WG3722340-4 DUP		**WG3722340-3**						
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	03-MAY-22
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	03-MAY-22
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	03-MAY-22
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-MAY-22
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	03-MAY-22
WG3722340-2 LCS								
Benzene			100.0		%		70-130	02-MAY-22
Ethylbenzene			92.0		%		70-130	02-MAY-22
m+p-Xylenes			96.5		%		70-130	02-MAY-22
o-Xylene			93.1		%		70-130	02-MAY-22
Toluene			96.8		%		70-130	02-MAY-22
WG3722340-1 MB								
Benzene			<0.0068		ug/g		0.0068	02-MAY-22
Ethylbenzene			<0.018		ug/g		0.018	02-MAY-22
m+p-Xylenes			<0.030		ug/g		0.03	02-MAY-22
o-Xylene			<0.020		ug/g		0.02	02-MAY-22
Toluene			<0.080		ug/g		0.08	02-MAY-22
Surrogate: 1,4-Difluorobenzene			115.1		%		50-140	02-MAY-22
Surrogate: 4-Bromofluorobenzene			111.8		%		50-140	02-MAY-22
WG3722340-5 MS		**WG3722340-3**						
Benzene			109.4		%		60-140	03-MAY-22
Ethylbenzene			98.3		%		60-140	03-MAY-22
m+p-Xylenes			103.3		%		60-140	03-MAY-22
o-Xylene			100.3		%		60-140	03-MAY-22
Toluene			105.2		%		60-140	03-MAY-22
F1-HS-511-WT	Soil							
Batch R5770503								
WG3722340-4 DUP		**WG3722340-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	03-MAY-22
WG3722340-2 LCS								
F1 (C6-C10)			95.5		%		80-120	02-MAY-22
WG3722340-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	02-MAY-22
Surrogate: 3,4-Dichlorotoluene			101.7		%		60-140	02-MAY-22
WG3722340-5 MS		**WG3722340-3**						

Quality Control Report

Workorder: L2702132 Report Date: 03-MAY-22

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Pascal Renella

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	Soil							
Batch R5770503								
WG3722340-5 MS		**WG3722340-3**						
F1 (C6-C10)			99.8		%		60-140	03-MAY-22
F2-F4-511-WT	Soil							
Batch R5770400								
WG3722066-3 DUP		**WG3722066-5**						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	40	02-MAY-22
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	40	02-MAY-22
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	40	02-MAY-22
WG3722066-2 LCS								
F2 (C10-C16)			98.0		%		70-130	02-MAY-22
F3 (C16-C34)			96.4		%		70-130	02-MAY-22
F4 (C34-C50)			104.5		%		70-130	02-MAY-22
WG3722066-1 MB								
F2 (C10-C16)			<10		ug/g		10	02-MAY-22
F3 (C16-C34)			<50		ug/g		50	02-MAY-22
F4 (C34-C50)			<50		ug/g		50	02-MAY-22
Surrogate: 2-Bromobenzotrifluoride			93.3		%		60-140	02-MAY-22
WG3722066-4 MS		**WG3722066-5**						
F2 (C10-C16)			96.2		%		60-140	02-MAY-22
F3 (C16-C34)			96.5		%		60-140	02-MAY-22
F4 (C34-C50)			105.6		%		60-140	02-MAY-22
MOISTURE-WT	Soil							
Batch R5770108								
WG3722197-4 DUP		**L2702449-22**						
% Moisture		19.8	20.6		%	4.1	20	01-MAY-22
WG3722197-2 LCS								
% Moisture			100.4		%		90-110	01-MAY-22
WG3722197-1 MB								
% Moisture			<0.25		%		0.25	01-MAY-22

Quality Control Report

Workorder: L2702132 Report Date: 03-MAY-22

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Pascal Renella

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

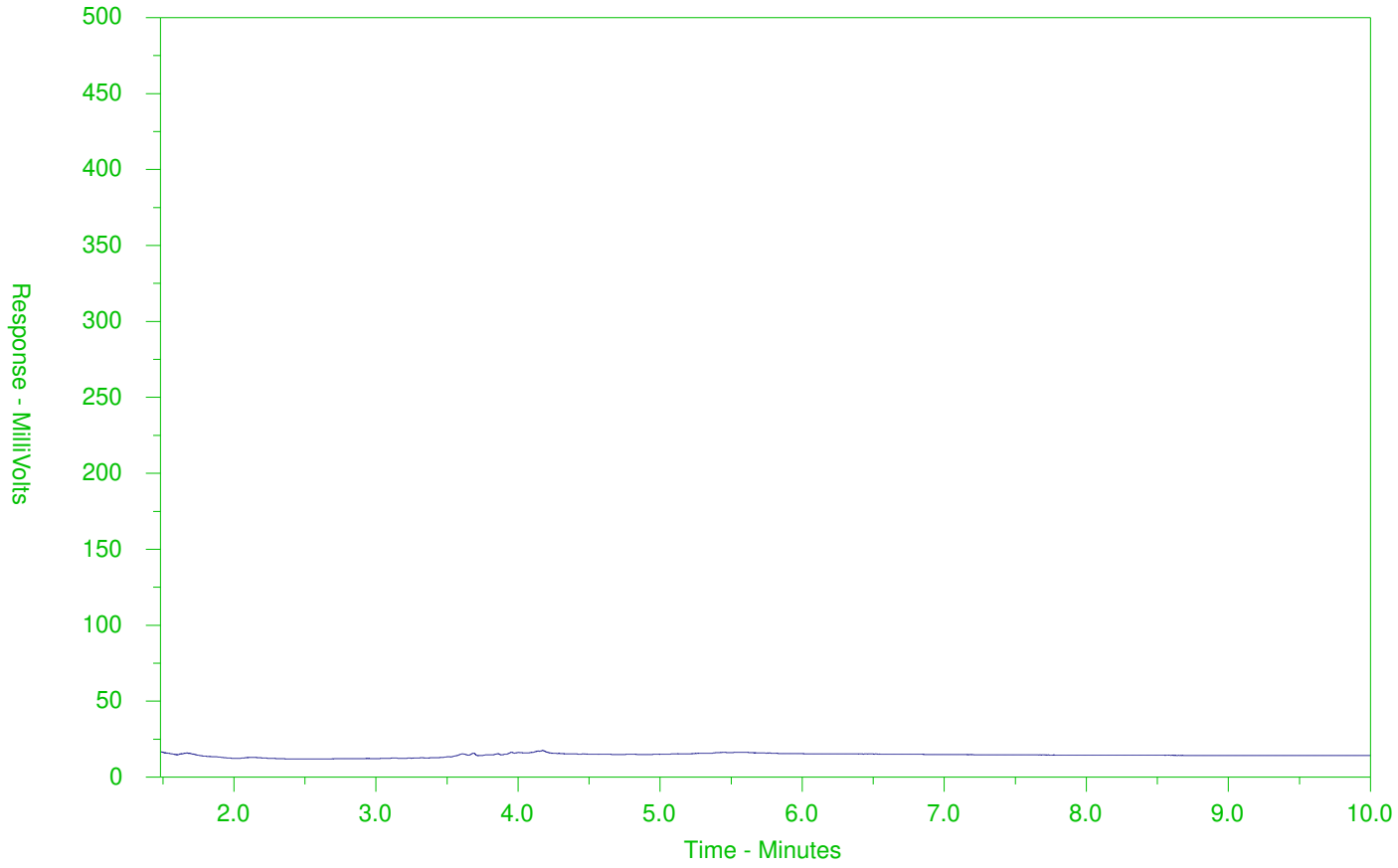
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-1
Client Sample ID: S-12566614-042822-DA-001



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

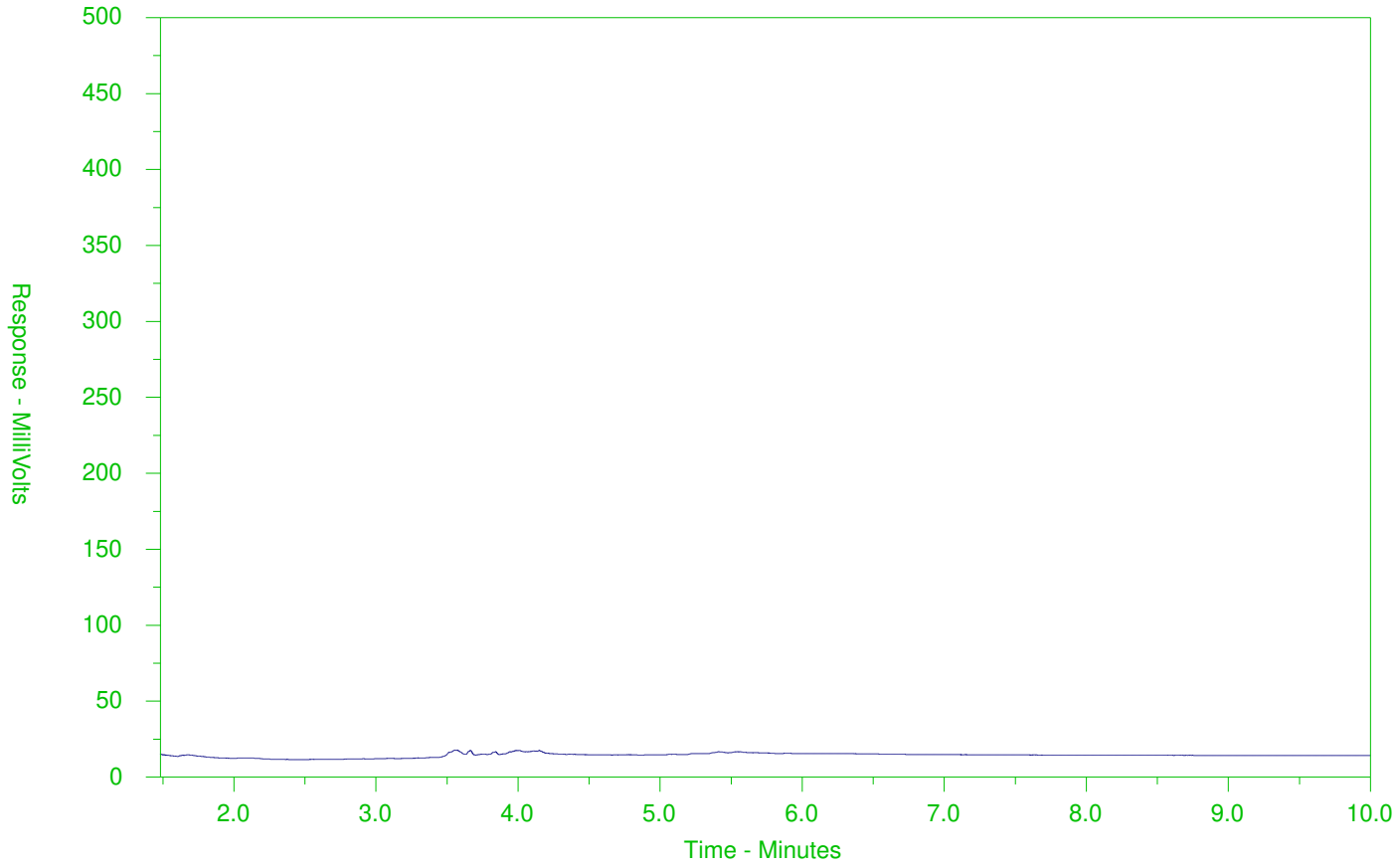
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-2
Client Sample ID: S-12566614-042822-DA-002



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

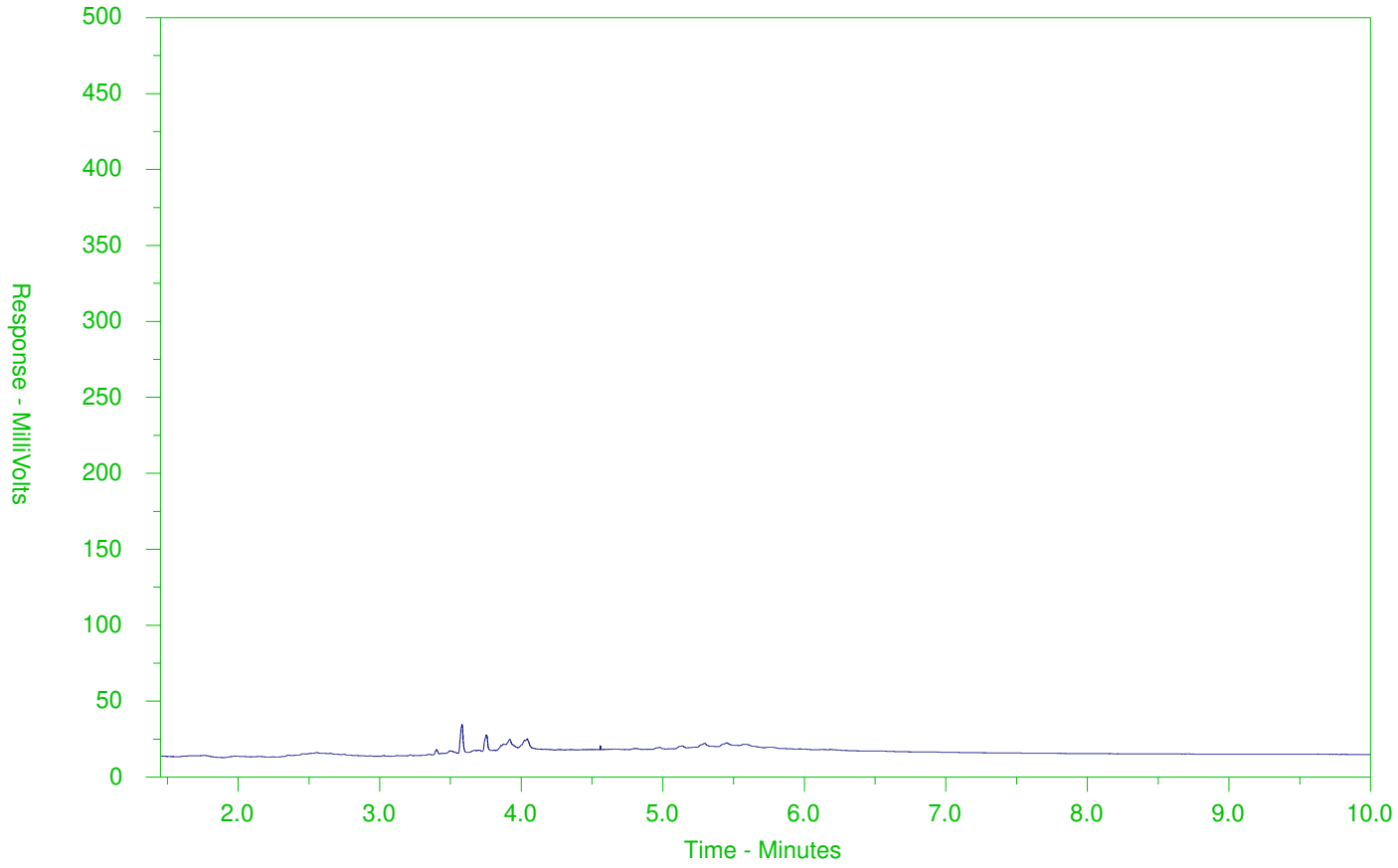
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-3
Client Sample ID: S-12566614-042822-DA-003



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

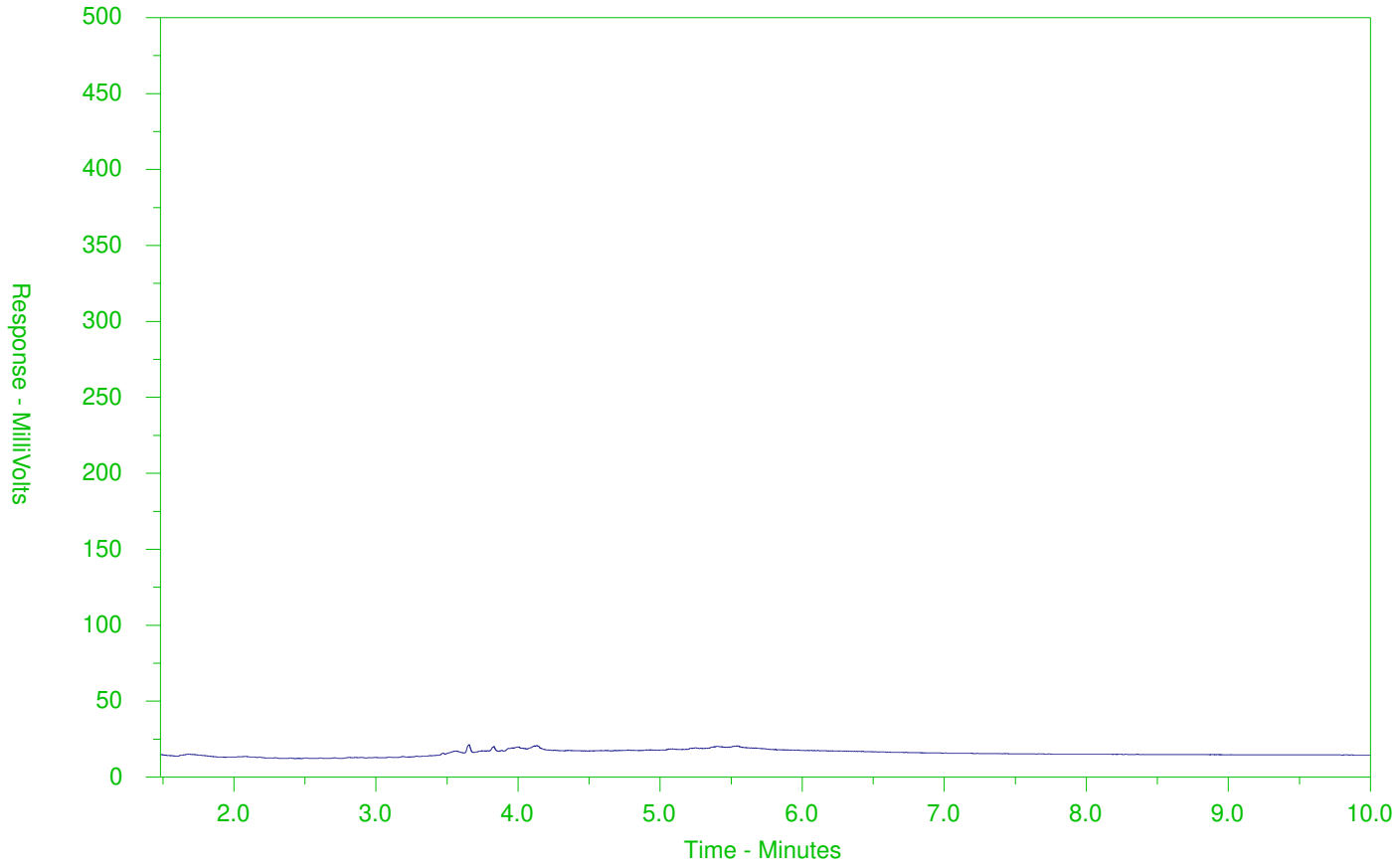
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-4
Client Sample ID: S-12566614-042822-DA-004



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

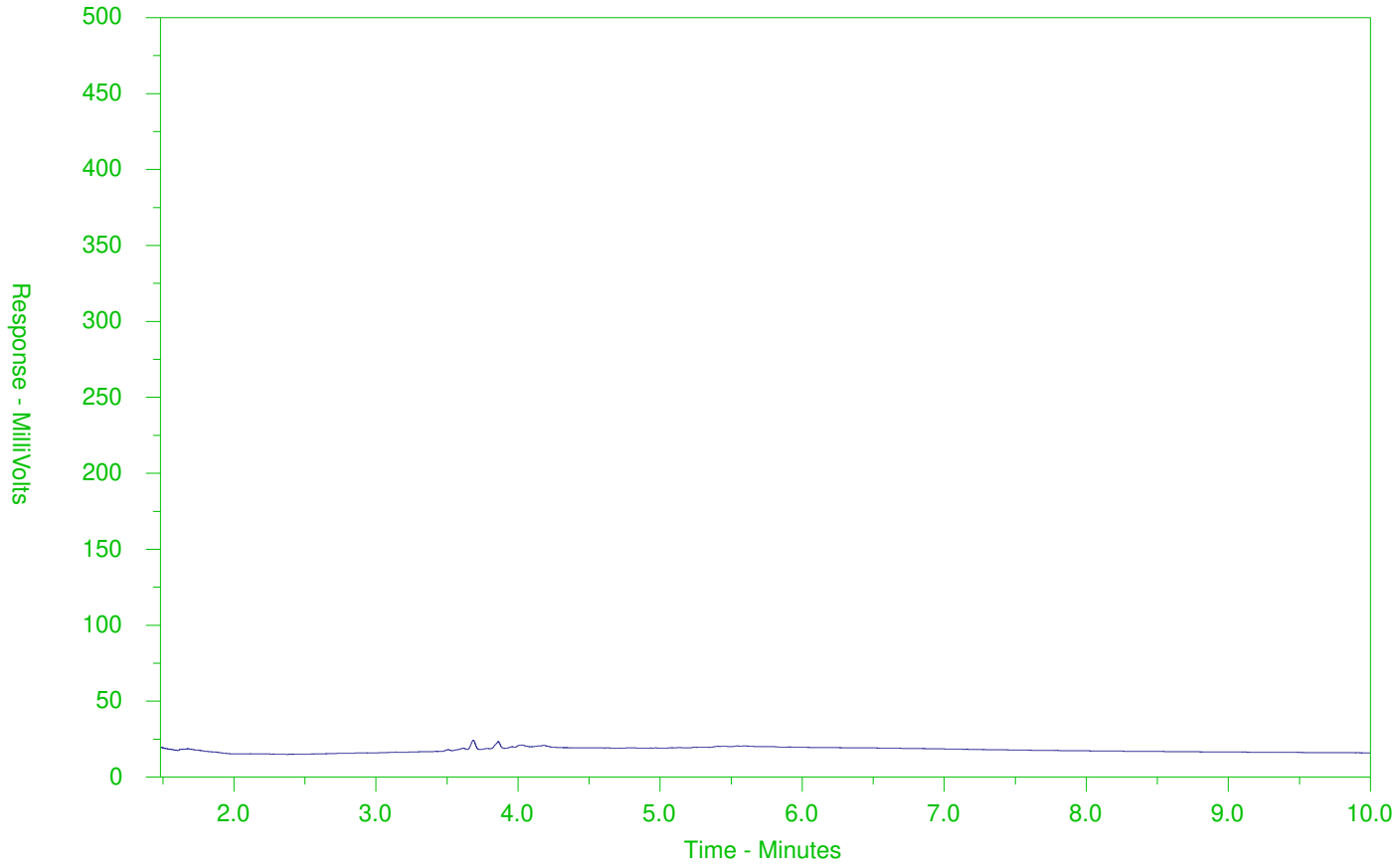
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2702132-5
Client Sample ID: S-12566614-042822-DA-005



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

ALS www.als

L2702132-COFC

...in of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 1009502

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd.
Contact:	Joseph Drader
Phone:	tl+613-218-3463
Company address below will appear on the final report	
Street:	400-179 Colonnade Road
City/Province:	Ottawa, Ontario
Postal Code:	K2E 7J4
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☑ YES ☐ NO
Company:	GHD Ltd.
Contact:	Pascal Renella

Reports / Recipients	
Select Report Format:	☑ PDF ☐ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Joseph.Drader@ghd.com
Email 2	
Email 3	

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	pascal.renella@ghd.com
Email 2	

Turnaround Time (TAT) Requested
☐ Routine [R] if received by 3pm M-F - no surcharges apply
☑ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

See notes

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm or other

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#:
Job #:	1256614	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):	L2702132	ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC F1-F4	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-1256614-042822-DA-001	28-04-22	10:00	Soil	3	X	X			
	S-1256614-042822-DA-002	28-04-22	10:15	Soil	3	X	X			
	S-1256614-042822-DA-003	28-04-22	10:30	Soil	3	X	X			
	S-1256614-042822-DA-004	28-04-22	10:40	Soil	3	X	X			
	S-1256614-004 DA									
	S-1256614-042822-DA-005	28-04-22	10:50	Soil	3	X	X			
	Tripblank-001	28-04-22	11:00	Soil	1	X	X			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	Results by May 4th, 2022
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
6.6				8.6			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Dathan Ash	Date: Apr. 28, 2022	Time:	Received by:	Date: 28APR22	Time: 1:10	Received by:	Date: 29-4-22	Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

CERTIFICATE OF ANALYSIS

Work Order	: **WT2204113**	Page	: 1 of 11
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 17-May-2022 15:45
PO	: 735-002942	Date Analysis Commenced	: 19-May-2022
C-O-C number	: ----	Issue Date	: 31-May-2022 13:10
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Organics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*

Analytical Results

WT2204113-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-001
Client sampling date / time: 17-May-2022 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	2.30	0.0010	mS/cm	E100	20-May-2022	21-May-2022	494874
pH	----	8.11	0.10	pH units	E108	20-May-2022	21-May-2022	494873
Anions and Nutrients								
chloride	16887-00-6	620 DLDS,	2.50	mg/L	E235.Cl	20-May-2022	24-May-2022	494894
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	19-May-2022	19-May-2022	493552
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
barium, dissolved	7440-39-3	244 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	20-May-2022	24-May-2022	495359
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	20-May-2022	24-May-2022	495359
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	20-May-2022	24-May-2022	495359
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	20-May-2022	24-May-2022	495359
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	20-May-2022	20-May-2022	494459
molybdenum, dissolved	7439-98-7	2.39 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
sodium, dissolved	7440-23-5	236000 DLHC,	500	µg/L	E421	20-May-2022	24-May-2022	495359
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
uranium, dissolved	7440-61-1	4.53 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	20-May-2022	24-May-2022	495359
dissolved mercury filtration location	----	Field	-	-	EP509	-	20-May-2022	494459
dissolved metals filtration location	----	Field	-	-	EP421	-	20-May-2022	495359
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	19-May-2022	493593
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
benzene	71-43-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387

Analytical Results

WT2204113-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-001
Client sampling date / time: 17-May-2022 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
styrene	100-42-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
toluene	108-88-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
BTEX, total	----	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	120	1.0	%	E611D	20-May-2022	20-May-2022	494387
difluorobenzene, 1,4-	540-36-3	95.7	1.0	%	E611D	20-May-2022	20-May-2022	494387
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494388
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	26-May-2022	494854
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	25-May-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	20-May-2022	26-May-2022	494854
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	25-May-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	26-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	24-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	24-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	26-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	85.5	1.0	%	E601.SG	20-May-2022	26-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	92.3	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494388
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856

Analytical Results

WT2204113-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-001

Client sampling date / time: 17-May-2022 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
chrysene	218-01-9	0.016	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
fluoranthene	206-44-0	0.034	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1+2-	----	0.015	0.015	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	20-May-2022	24-May-2022	494856
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	20-May-2022	24-May-2022	494856
pyrene	129-00-0	0.019	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	20-May-2022	24-May-2022	494856
naphthalene-d8	1146-65-2	102	0.1	%	E641A	20-May-2022	24-May-2022	494856
phenanthrene-d10	1517-22-2	106	0.1	%	E641A	20-May-2022	24-May-2022	494856

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204113-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	3.42	0.0010	mS/cm	E100	20-May-2022	21-May-2022	494874
pH	----	7.76	0.10	pH units	E108	20-May-2022	21-May-2022	494873
Anions and Nutrients								
chloride	16887-00-6	896 DLDS,	2.50	mg/L	E235.Cl	20-May-2022	24-May-2022	494894
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	19-May-2022	19-May-2022	493552
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
barium, dissolved	7440-39-3	216 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	20-May-2022	24-May-2022	495359
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	20-May-2022	24-May-2022	495359
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	20-May-2022	24-May-2022	495359
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	20-May-2022	24-May-2022	495359
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	20-May-2022	20-May-2022	494459

Analytical Results

WT2204113-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
molybdenum, dissolved	7439-98-7	1.47 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
sodium, dissolved	7440-23-5	405000 DLHC,	500	µg/L	E421	20-May-2022	24-May-2022	495359
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
uranium, dissolved	7440-61-1	2.18 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	20-May-2022	24-May-2022	495359
dissolved mercury filtration location	----	Field	-	-	EP509	-	20-May-2022	494459
dissolved metals filtration location	----	Field	-	-	EP421	-	20-May-2022	495359
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	19-May-2022	493593
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
benzene	71-43-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
styrene	100-42-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
toluene	108-88-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387

Analytical Results

WT2204113-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
BTEX, total	----	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	117	1.0	%	E611D	20-May-2022	20-May-2022	494387
difluorobenzene, 1,4-	540-36-3	96.3	1.0	%	E611D	20-May-2022	20-May-2022	494387
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494388
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	25-May-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	25-May-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	24-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	24-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	27-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	83.3	1.0	%	E601.SG	20-May-2022	27-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	89.3	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494388
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	20-May-2022	24-May-2022	494856
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	20-May-2022	24-May-2022	494856
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	20-May-2022	24-May-2022	494856
naphthalene-d8	1146-65-2	105	0.1	%	E641A	20-May-2022	24-May-2022	494856

Analytical Results

WT2204113-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-002

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons Surrogates								
phenanthrene-d10	1517-22-2	106	0.1	%	E641A	20-May-2022	24-May-2022	494856

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204113-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-003

Client sampling date / time: 17-May-2022 14:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
benzene	71-43-2	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
toluene	108-88-3	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A	20-May-2022	20-May-2022	494592
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A	20-May-2022	20-May-2022	494592
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A	20-May-2022	20-May-2022	494592
BTEX, total	----	<1.0	1.0	µg/L	E611A	20-May-2022	20-May-2022	494592
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	108	1.0	%	E611A	20-May-2022	20-May-2022	494592
difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611A	20-May-2022	20-May-2022	494592
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494591
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F3 (C16-C34)	----	280	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	21-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	21-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	27-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	83.4	1.0	%	E601.SG	20-May-2022	27-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	102	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494591

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204113-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004

Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	3.39	0.0010	mS/cm	E100	20-May-2022	21-May-2022	494874
pH	----	7.75	0.10	pH units	E108	20-May-2022	21-May-2022	494873
Anions and Nutrients								
chloride	16887-00-6	858 DLDS	2.50	mg/L	E235.Cl	20-May-2022	24-May-2022	494894

Analytical Results

WT2204113-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	19-May-2022	19-May-2022	493552
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
barium, dissolved	7440-39-3	209 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	20-May-2022	24-May-2022	495359
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	20-May-2022	24-May-2022	495359
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	20-May-2022	24-May-2022	495359
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	20-May-2022	24-May-2022	495359
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	20-May-2022	24-May-2022	495359
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	20-May-2022	20-May-2022	494459
molybdenum, dissolved	7439-98-7	1.49 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	20-May-2022	24-May-2022	495359
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
sodium, dissolved	7440-23-5	415000 DLHC,	500	µg/L	E421	20-May-2022	24-May-2022	495359
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
uranium, dissolved	7440-61-1	2.20 DLHC,	0.100	µg/L	E421	20-May-2022	24-May-2022	495359
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	20-May-2022	24-May-2022	495359
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	20-May-2022	24-May-2022	495359
dissolved mercury filtration location	----	Field	-	-	EP509	-	20-May-2022	494459
dissolved metals filtration location	----	Field	-	-	EP421	-	20-May-2022	495359
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	19-May-2022	493593
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
benzene	71-43-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387

Analytical Results

WT2204113-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	20-May-2022	20-May-2022	494387
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
styrene	100-42-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
toluene	108-88-3	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	20-May-2022	20-May-2022	494387
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	20-May-2022	20-May-2022	494387
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	20-May-2022	20-May-2022	494387
BTEX, total	----	<1.0	1.0	µg/L	E611D	20-May-2022	20-May-2022	494387
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	119	1.0	%	E611D	20-May-2022	20-May-2022	494387
difluorobenzene, 1,4-	540-36-3	95.2	1.0	%	E611D	20-May-2022	20-May-2022	494387
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	20-May-2022	20-May-2022	494388
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	25-May-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	25-May-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	20-May-2022	27-May-2022	494854
F1-BTEX	----	<25	25	µg/L	EC580	-	24-May-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	24-May-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	20-May-2022	27-May-2022	494854
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.4	1.0	%	E601.SG	20-May-2022	27-May-2022	494854
dichlorotoluene, 3,4-	97-75-0	90.6	1.0	%	E581.F1-L	20-May-2022	20-May-2022	494388
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856

Analytical Results

WT2204113-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-051722-NG-004
Client sampling date / time: 17-May-2022 11:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	20-May-2022	24-May-2022	494856
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	20-May-2022	24-May-2022	494856
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	20-May-2022	24-May-2022	494856
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	20-May-2022	24-May-2022	494856
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	20-May-2022	24-May-2022	494856
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	20-May-2022	24-May-2022	494856
naphthalene-d8	1146-65-2	104	0.1	%	E641A	20-May-2022	24-May-2022	494856
phenanthrene-d10	1517-22-2	105	0.1	%	E641A	20-May-2022	24-May-2022	494856

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2204113**	Page	: 1 of 11
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 17-May-2022 15:45
PO	: 735-002942	Issue Date	: 31-May-2022 13:11
C-O-C number	: ----		
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12566614-051722-NG-001	E235.Cl	17-May-2022	----	----	----		24-May-2022	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12566614-051722-NG-002	E235.Cl	17-May-2022	----	----	----		24-May-2022	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12566614-051722-NG-004	E235.Cl	17-May-2022	----	----	----		24-May-2022	28 days	7 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-051722-NG-001	E336	17-May-2022	----	----	----		19-May-2022	14 days	2 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-051722-NG-002	E336	17-May-2022	----	----	----		19-May-2022	14 days	2 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-051722-NG-004	E336	17-May-2022	----	----	----		19-May-2022	14 days	2 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12566614-051722-NG-001	E509	17-May-2022	20-May-2022	----	----		20-May-2022	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12566614-051722-NG-002	E509	17-May-2022	20-May-2022	----	----		20-May-2022	28 days	3 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12566614-051722-NG-004	E509	17-May-2022	20-May-2022	----	----		20-May-2022	28 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-051722-NG-001	E421	17-May-2022	20-May-2022	----	----		24-May-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-051722-NG-002	E421	17-May-2022	20-May-2022	----	----		24-May-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-051722-NG-004	E421	17-May-2022	20-May-2022	----	----		24-May-2022	180 days	7 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-001	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-002	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-003	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-051722-NG-004	E581.F1-L	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-001	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	26-May-2022	40 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-002	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	27-May-2022	40 days	7 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-003	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	27-May-2022	40 days	7 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-051722-NG-004	E601.SG	17-May-2022	20-May-2022	14 days	3 days	✓	27-May-2022	40 days	7 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12566614-051722-NG-001	E100	17-May-2022	----	----	----		21-May-2022	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12566614-051722-NG-002	E100	17-May-2022	----	----	----		21-May-2022	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12566614-051722-NG-004	E100	17-May-2022	----	----	----		21-May-2022	28 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12566614-051722-NG-001	E108	17-May-2022	----	----	----		21-May-2022	4 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12566614-051722-NG-002	E108	17-May-2022	----	----	----		21-May-2022	4 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12566614-051722-NG-004	E108	17-May-2022	----	----	----		21-May-2022	4 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-051722-NG-001	E641A	17-May-2022	20-May-2022	14 days	3 days	✓	24-May-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-051722-NG-002	E641A	17-May-2022	20-May-2022	14 days	3 days	✓	24-May-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-051722-NG-004	E641A	17-May-2022	20-May-2022	14 days	3 days	✓	24-May-2022	40 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-051722-NG-001	E532A	17-May-2022	----	----	----		19-May-2022	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-051722-NG-002	E532A	17-May-2022	----	----	----		19-May-2022	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-051722-NG-004	E532A	17-May-2022	----	----	----		19-May-2022	28 days	2 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-003	E611A	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-001	E611D	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-002	E611D	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12566614-051722-NG-004	E611D	17-May-2022	20-May-2022	----	----		20-May-2022	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Conductivity in Water	E100	494874	1	10	10.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
pH by Meter	E108	494873	1	15	6.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Conductivity in Water	E100	494874	1	10	10.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	494856	1	3	33.3	5.0	✓
pH by Meter	E108	494873	1	15	6.6	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	494854	1	5	20.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Conductivity in Water	E100	494874	1	10	10.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	494856	1	3	33.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	494854	1	5	20.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	494592	1	2	50.0	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	494388	2	6	33.3	5.0	✓
Chloride in Water by IC	E235.Cl	494894	1	13	7.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	493593	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	494459	1	4	25.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	495359	1	19	5.2	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	494387	1	20	5.0	5.0	✓
WAD Cyanide	E336	493552	1	3	33.3	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
BTEX by Headspace GC-MS	E611A Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **WT2204113**	Page	: 1 of 16
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 17-May-2022 15:45
PO	: 735-002942	Date Analysis Commenced	: 19-May-2022
C-O-C number	: ----	Issue Date	: 31-May-2022 13:10
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 494873)											
WT2204109-005	Anonymous	pH	----	E108	0.10	pH units	8.19	8.14	0.05	Diff <2x LOR	----
Physical Tests (QC Lot: 494874)											
WT2204109-005	Anonymous	conductivity	----	E100	2.0	µS/cm	194	196	0.871%	10%	----
Anions and Nutrients (QC Lot: 494894)											
WT2204109-005	Anonymous	chloride	16887-00-6	E235.Cl	0.50	mg/L	7.92	7.96	0.436%	20%	----
Cyanides (QC Lot: 493552)											
WT2204113-001	GW-12566614-051722-NG-001	cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 494459)											
WT2204113-001	GW-12566614-051722-NG-001	mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 495359)											
WT2204009-001	Anonymous	antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		barium, dissolved	7440-39-3	E421	0.00100	mg/L	32.9 µg/L	0.0336	1.90%	20%	----
		beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		boron, dissolved	7440-42-8	E421	0.100	mg/L	355 µg/L	0.336	0.018	Diff <2x LOR	----
		cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	0.0649 µg/L	0.0000678	0.0000029	Diff <2x LOR	----
		chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	12.5 µg/L	0.0133	6.29%	20%	----
		nickel, dissolved	7440-02-0	E421	0.00500	mg/L	16.6 µg/L	0.0171	0.00057	Diff <2x LOR	----
		selenium, dissolved	7782-49-2	E421	0.000500	mg/L	1.03 µg/L	0.000992	0.000040	Diff <2x LOR	----
		silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		sodium, dissolved	7440-23-5	E421	0.500	mg/L	201000 µg/L	207	3.17%	20%	----
		thallium, dissolved	7440-28-0	E421	0.000100	mg/L	0.356 µg/L	0.000342	0.000013	Diff <2x LOR	----
		uranium, dissolved	7440-61-1	E421	0.000100	mg/L	10.2 µg/L	0.0103	0.733%	20%	----
		vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		zinc, dissolved	7440-66-6	E421	0.0100	mg/L	34.0 µg/L	0.0331	0.0010	Diff <2x LOR	----
Speciated Metals (QC Lot: 493593)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Speciated Metals (QC Lot: 493593) - continued											
CG2205921-008	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 494387)											
WT2204113-001	GW-12566614-051722-NG-001	acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 494387) - continued											
WT2204113-001	GW-12566614-051722-NG-001	trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 494592)											
WT2203988-001	Anonymous	benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611A	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 494388)											
WT2204113-001	GW-12566614-051722-NG-001	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 494591)											
WT2203988-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 494874)						
conductivity	----	E100	1	µS/cm	1.1	----
Anions and Nutrients (QCLot: 494894)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 493552)						
cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 494459)						
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 495359)						
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Speciated Metals (QCLot: 493593)						
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 494387)						
acetone	67-64-1	E611D	20	µg/L	<20	----
benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued						
bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued						
xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 494592)						
benzene	71-43-2	E611A	0.5	µg/L	<0.50	----
ethylbenzene	100-41-4	E611A	0.5	µg/L	<0.50	----
toluene	108-88-3	E611A	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611A	0.4	µg/L	<0.40	----
xylene, o-	95-47-6	E611A	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 494388)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 494591)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 494854)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 494856)						
acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 494873)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 494874)									
conductivity	----	E100	1	µS/cm	1409 µS/cm	98.6	90.0	110	----
Anions and Nutrients (QCLot: 494894)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	104	90.0	110	----
Cyanides (QCLot: 493552)									
cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	107	80.0	120	----
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	94.8	80.0	120	----
Dissolved Metals (QCLot: 495359)									
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	103	80.0	120	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	106	80.0	120	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	108	80.0	120	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	105	80.0	120	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	105	80.0	120	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	105	80.0	120	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	102	80.0	120	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	101	80.0	120	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	102	80.0	120	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	102	80.0	120	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	102	80.0	120	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	96.2	80.0	120	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	108	80.0	120	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	100	80.0	120	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	101	80.0	120	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	105	80.0	120	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	106	80.0	120	----
Speciated Metals (QCLot: 493593)									
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	98.8	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387)									
acetone	67-64-1	E611D	20	µg/L	100 µg/L	114	70.0	130	----
benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	94.4	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	117	70.0	130	----
bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	97.9	70.0	130	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	99.4	70.0	130	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	100.0	70.0	130	----
chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	95.6	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	101	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	99.7	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	102	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	88.1	70.0	130	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	98.4	70.0	130	----
hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	110	70.0	130	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	110	70.0	130	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	84.2	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	94.6	70.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	99.7	70.0	130	----
toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	91.9	70.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued									
vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	92.9	70.0	130	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	102	70.0	130	----
xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	96.6	70.0	130	----
Volatile Organic Compounds (QCLot: 494592)									
benzene	71-43-2	E611A	0.5	µg/L	100 µg/L	108	70.0	130	----
ethylbenzene	100-41-4	E611A	0.5	µg/L	100 µg/L	96.7	70.0	130	----
toluene	108-88-3	E611A	0.5	µg/L	100 µg/L	105	70.0	130	----
xylene, m+p-	179601-23-1	E611A	0.4	µg/L	200 µg/L	105	70.0	130	----
xylene, o-	95-47-6	E611A	0.3	µg/L	100 µg/L	99.8	70.0	130	----
Hydrocarbons (QCLot: 494388)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	104	80.0	120	----
Hydrocarbons (QCLot: 494591)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	91.3	80.0	120	----
Hydrocarbons (QCLot: 494854)									
F2 (C10-C16)	----	E601.SG	100	µg/L	5018 µg/L	104	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6312 µg/L	122	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	6087 µg/L	79.1	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 494856)									
acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	97.4	50.0	140	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	103	50.0	140	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	113	50.0	140	----
chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	107	50.0	140	----
fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	113	50.0	140	----
fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	97.7	50.0	140	----
naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	98.4	50.0	140	----
phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	112	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 494856) - continued									
pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 494894)										
WT2204109-005	Anonymous	chloride	16887-00-6	E235.Cl	103 mg/L	100 mg/L	103	75.0	125	----
Cyanides (QCLot: 493552)										
WT2204113-001	GW-12566614-051722-NG-001	cyanide, weak acid dissociable	----	E336	0.156 mg/L	0.125 mg/L	125	70.0	130	----
Dissolved Metals (QCLot: 494459)										
WT2204113-002	GW-12566614-051722-NG-002	mercury, dissolved	7439-97-6	E509	0.0000896 mg/L	0.0001 mg/L	89.6	70.0	130	----
Dissolved Metals (QCLot: 495359)										
WT2204009-002	Anonymous	antimony, dissolved	7440-36-0	E421	0.494 mg/L	0.5 mg/L	98.8	70.0	130	----
		arsenic, dissolved	7440-38-2	E421	0.502 mg/L	0.5 mg/L	100	70.0	130	----
		barium, dissolved	7440-39-3	E421	0.121 mg/L	0.125 mg/L	96.5	70.0	130	----
		beryllium, dissolved	7440-41-7	E421	0.0466 mg/L	0.05 mg/L	93.3	70.0	130	----
		boron, dissolved	7440-42-8	E421	0.459 mg/L	0.5 mg/L	91.7	70.0	130	----
		cadmium, dissolved	7440-43-9	E421	0.0486 mg/L	0.05 mg/L	97.3	70.0	130	----
		chromium, dissolved	7440-47-3	E421	0.123 mg/L	0.125 mg/L	98.6	70.0	130	----
		cobalt, dissolved	7440-48-4	E421	0.120 mg/L	0.125 mg/L	95.8	70.0	130	----
		copper, dissolved	7440-50-8	E421	0.114 mg/L	0.125 mg/L	91.1	70.0	130	----
		lead, dissolved	7439-92-1	E421	0.228 mg/L	0.25 mg/L	91.4	70.0	130	----
		molybdenum, dissolved	7439-98-7	E421	0.125 mg/L	0.125 mg/L	100	70.0	130	----
		nickel, dissolved	7440-02-0	E421	0.233 mg/L	0.25 mg/L	93.2	70.0	130	----
		selenium, dissolved	7782-49-2	E421	0.512 mg/L	0.5 mg/L	102	70.0	130	----
		silver, dissolved	7440-22-4	E421	0.0443 mg/L	0.05 mg/L	88.5	70.0	130	----
		sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		thallium, dissolved	7440-28-0	E421	0.443 mg/L	0.5 mg/L	88.5	70.0	130	----
		uranium, dissolved	7440-61-1	E421	ND mg/L	0.0025 mg/L	ND	70.0	130	----
		vanadium, dissolved	7440-62-2	E421	0.258 mg/L	0.25 mg/L	103	70.0	130	----
		zinc, dissolved	7440-66-6	E421	0.222 mg/L	0.25 mg/L	88.7	70.0	130	----
Speciated Metals (QCLot: 493593)										
CG2205921-008	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0393 mg/L	0.04 mg/L	98.4	70.0	130	----
Volatile Organic Compounds (QCLot: 494387)										
WT2204113-001	GW-12566614-051722-NG-001	acetone	67-64-1	E611D	94 µg/L	100 µg/L	93.5	60.0	140	----
		benzene	71-43-2	E611D	89.5 µg/L	100 µg/L	89.5	60.0	140	----

Sub-Matrix: **Water**

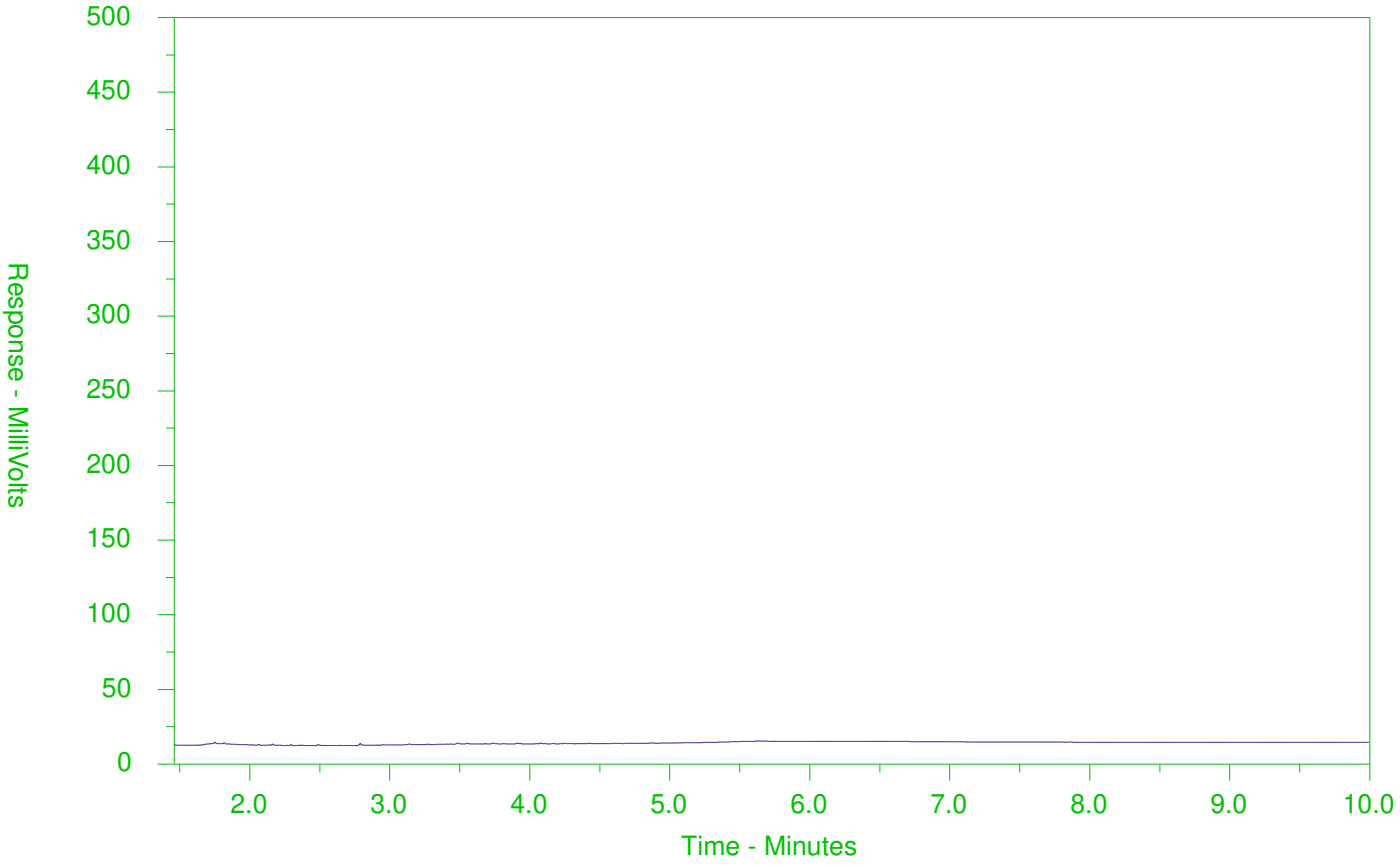
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued										
WT2204113-001	GW-12566614-051722-NG-001	bromodichloromethane	75-27-4	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		bromoform	75-25-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		bromomethane	74-83-9	E611D	91.1 µg/L	100 µg/L	91.1	60.0	140	----
		carbon tetrachloride	56-23-5	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		chlorobenzene	108-90-7	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		chloroform	67-66-3	E611D	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		dibromochloromethane	124-48-1	E611D	85.4 µg/L	100 µg/L	85.4	60.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	84.8 µg/L	100 µg/L	84.8	60.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	93.5 µg/L	100 µg/L	93.5	60.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	65.0 µg/L	100 µg/L	65.0	60.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	94.1 µg/L	100 µg/L	94.1	60.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		dichloromethane	75-09-2	E611D	94.6 µg/L	100 µg/L	94.6	60.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	79.9 µg/L	100 µg/L	79.9	60.0	140	----
		ethylbenzene	100-41-4	E611D	93.7 µg/L	100 µg/L	93.7	60.0	140	----
		hexane, n-	110-54-3	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	87 µg/L	100 µg/L	87.4	60.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	89 µg/L	100 µg/L	88.9	60.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		styrene	100-42-5	E611D	76.1 µg/L	100 µg/L	76.1	60.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	85.5 µg/L	100 µg/L	85.5	60.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	84.6 µg/L	100 µg/L	84.6	60.0	140	----
		tetrachloroethylene	127-18-4	E611D	96.4 µg/L	100 µg/L	96.4	60.0	140	----
		toluene	108-88-3	E611D	95.0 µg/L	100 µg/L	95.0	60.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	92.3 µg/L	100 µg/L	92.3	60.0	140	----
		trichloroethylene	79-01-6	E611D	87.8 µg/L	100 µg/L	87.8	60.0	140	----
		trichlorofluoromethane	75-69-4	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		vinyl chloride	75-01-4	E611D	83.7 µg/L	100 µg/L	83.7	60.0	140	----
		xylene, m+p-	179601-23-1	E611D	197 µg/L	200 µg/L	98.5	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 494387) - continued										
WT2204113-001	GW-12566614-051722-NG-0 01	xylene, o-	95-47-6	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	----
Volatile Organic Compounds (QCLot: 494592)										
WT2203988-001	Anonymous	benzene	71-43-2	E611A	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		ethylbenzene	100-41-4	E611A	91.2 µg/L	100 µg/L	91.2	60.0	140	----
		toluene	108-88-3	E611A	98.0 µg/L	100 µg/L	98.0	60.0	140	----
		xylene, m+p-	179601-23-1	E611A	188 µg/L	200 µg/L	94.3	60.0	140	----
		xylene, o-	95-47-6	E611A	91.6 µg/L	100 µg/L	91.6	60.0	140	----
Hydrocarbons (QCLot: 494388)										
WT2204113-001	GW-12566614-051722-NG-0 01	F1 (C6-C10)	----	E581.F1-L	1830 µg/L	2000 µg/L	91.3	60.0	140	----
Hydrocarbons (QCLot: 494591)										
WT2203988-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1730 µg/L	2000 µg/L	86.5	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-001-E601.SG
Client Sample ID: GW-12566614-051722-NG-001



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

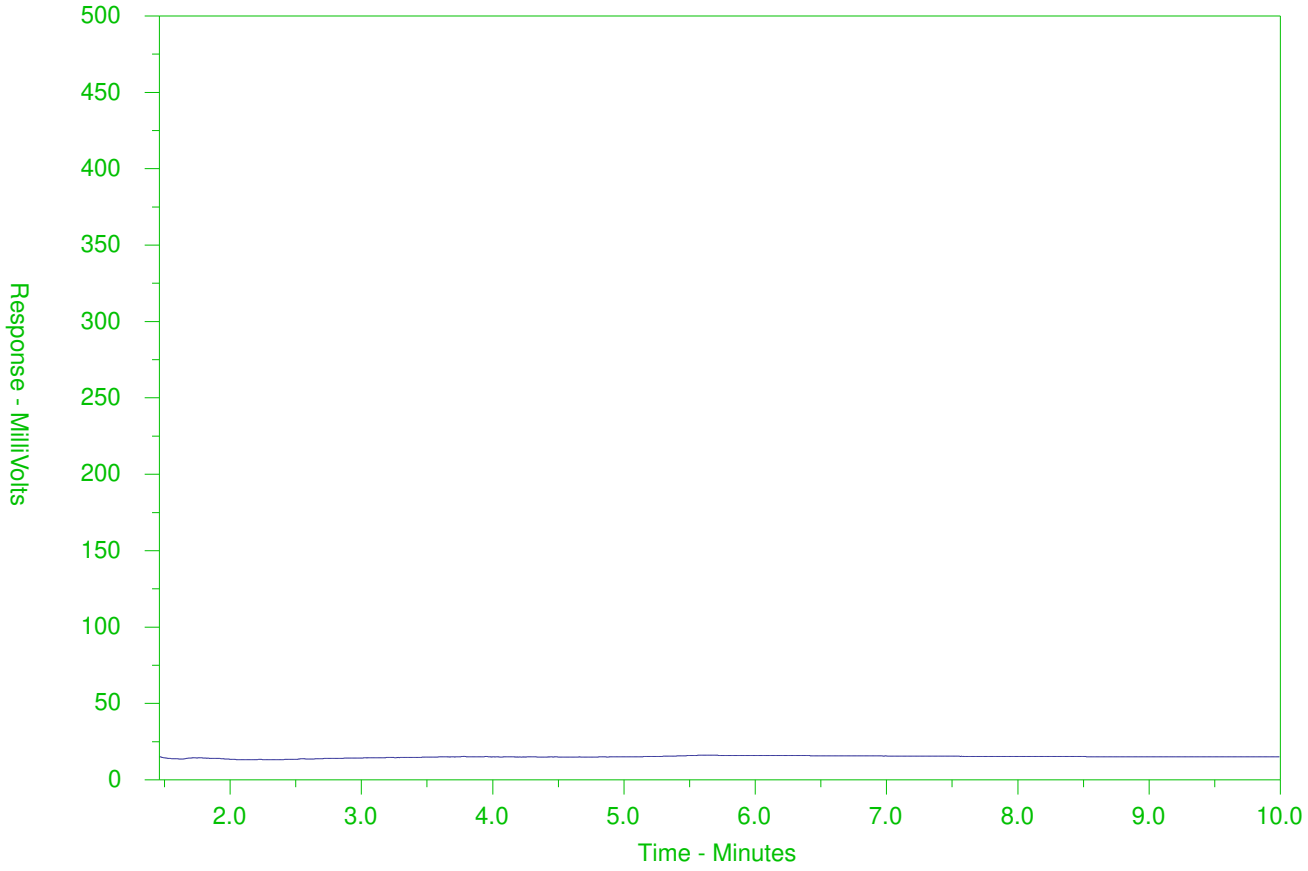
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-002-E601.SG
Client Sample ID: GW-12566614-051722-NG-002



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

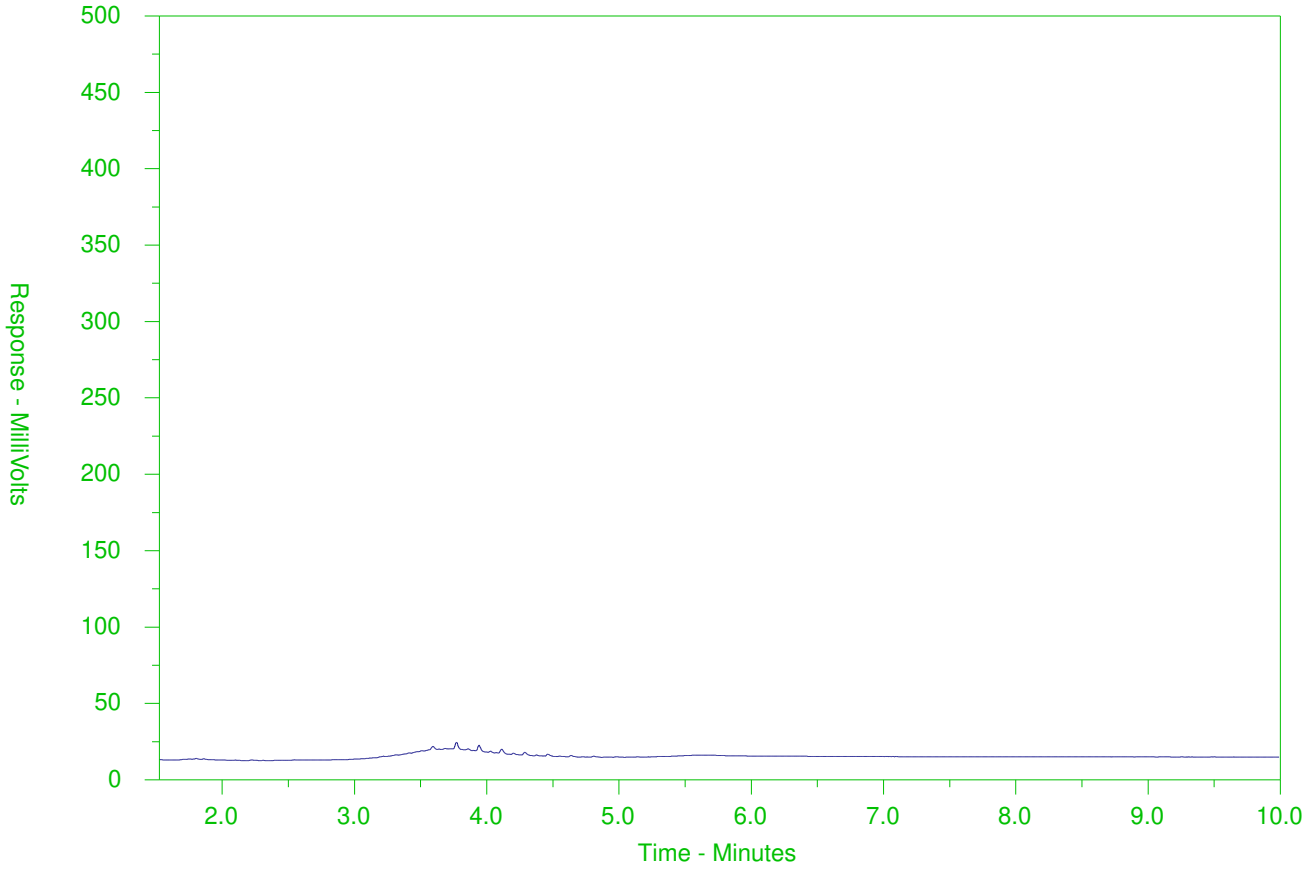
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-003-E601.SG
Client Sample ID: GW-12566614-051722-NG-003



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

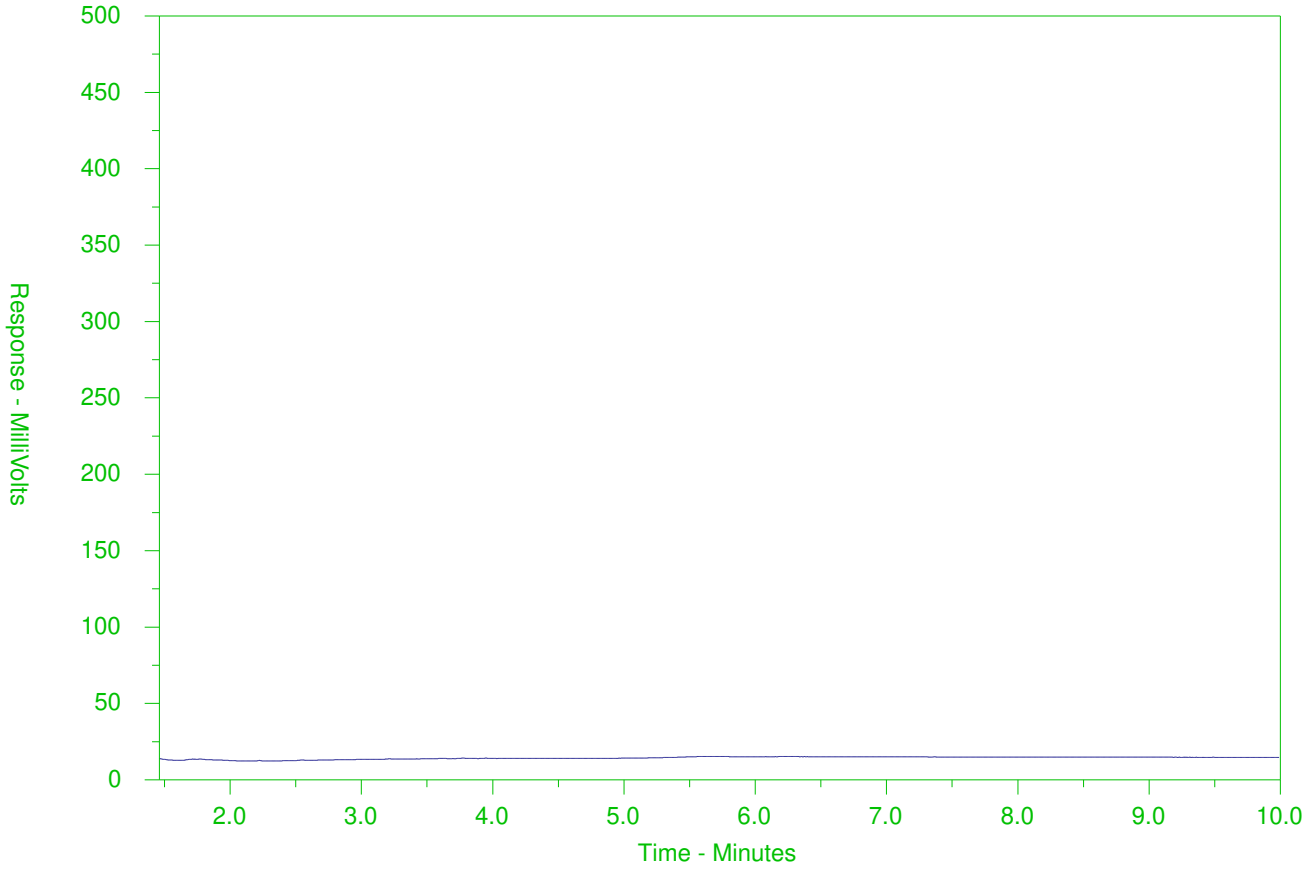
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204113-004-E601.SG
Client Sample ID: GW-12566614-051722-NG-004



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo

Work Order Reference

WT2204113

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: pascal.renella@ghd.com

Email 2: See SSOW/PO

Email 3:

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested please contact your AM to confirm availability.

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Invoicing-Canada@ghd.com

Email 2:

Project Information

ALS Account # / Quote #:	GHD100/WT2022GHDL1000057
Job #:	12566614
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2204113

ALS Contact: Rick H

Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metal/Inorganics	PAHS	PHC	VOCS	BTEX	Trip Blank -F1	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12566614-051722-NG-001	17/05/22	10:20	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-002	↓	11:30	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-003		14:10	WATER	4			✓		✓				
	GW-12566614-051722-NG-004		11:30	WATER	9	✓	✓	✓	✓	✓				
	trip blank	↓	N/A	WATER	2				✓		✓			
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

* TRIP BLANK EMPTY CF/ 05/17/22

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
14.5			8.1			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Nidhi Gupta	17/5/22	15:45

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	17 MAY	3:45

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
BB	May 19/22	9:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Environmental Division Waterloo
Work Order Reference
WT2204113

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients	
Select Report Format:	☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	pascal.renella@ghd.com
Email 2	See SSOW/PO
Email 3	

Turnaround Time (TAT) Requested
☒ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush resuests on weekends, statutory holidays and routine tests
Date and Time Required for all E&P TATs:
For tests that can not be performed according to the TAT, we will contact you.

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Invoicing-Canada@ghd.com
Email 2	

Project Information	
ALS Account # / Quote #:	GHD100/WT2022GHDL1000057
Job #:	12566614
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2204113

ALS Contact: Rick H

Sampler:

Analysis Request

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metal/Inorganics	PAHS	PHC	VOCS	BTEX	Trip Blank -F1	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12566614-051722-NG-001	17/05/22	10:20	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-002	↓	11:30	WATER	9	✓	✓	✓	✓	✓				
	GW-12566614-051722-NG-003		14:10	WATER	4			✓		✓				
	GW-12566614-051722-NG-004		11:30	WATER	9	✓	✓	✓	✓	✓				
	trip blank		N/A	WATER	2				✓		✓			
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	* TRIP BLANK EMPTY CF/ 05/17/22
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
14.5			8.1		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Nidhi Gupta	17/5/22	15:45		17/MAY	345	BB	May 19/22	9:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

CERTIFICATE OF ANALYSIS

Work Order	: **WT2204544**	Page	: 1 of 10
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 27-May-2022 10:30
PO	: 735-002942	Date Analysis Commenced	: 28-May-2022
C-O-C number	: ----	Issue Date	: 07-Jun-2022 12:52
Sampler	: ----		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2204544-004	GW-12566614-052622-NG-008	***ALS Sample #4 NG-008: Insufficient Sample. Test could not be conducted for EC,PH,CL.***

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*

Analytical Results

WT2204544-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052522-NG-005
Client sampling date / time: 25-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	2.90	0.0010	mS/cm	E100	28-May-2022	28-May-2022	502956
pH	----	7.54	0.10	pH units	E108	28-May-2022	28-May-2022	502955
Anions and Nutrients								
chloride	16887-00-6	749 DLDS,	2.50	mg/L	E235.Cl	28-May-2022	30-May-2022	502949
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	30-May-2022	30-May-2022	504606
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
barium, dissolved	7440-39-3	129 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cobalt, dissolved	7440-48-4	1.46 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	31-May-2022	31-May-2022	505316
molybdenum, dissolved	7439-98-7	7.98 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
nickel, dissolved	7440-02-0	5.87 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
selenium, dissolved	7782-49-2	0.914 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
sodium, dissolved	7440-23-5	336000 DLHC,	500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
uranium, dissolved	7440-61-1	10.4 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
dissolved mercury filtration location	----	Field	-	-	EP509	-	31-May-2022	505316
dissolved metals filtration location	----	Field	-	-	EP421	-	02-Jun-2022	507519
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	30-May-2022	504601
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059

Analytical Results

WT2204544-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052522-NG-005
Client sampling date / time: 25-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	91.7	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.2	1.0	%	E611D	31-May-2022	31-May-2022	505059
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	31-May-2022	31-May-2022	505060
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F1-BTEX	----	<25	25	µg/L	EC580	-	01-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	01-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-Jun-2022	07-Jun-2022	506541
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	86.9	1.0	%	E601.SG	01-Jun-2022	07-Jun-2022	506541
dichlorotoluene, 3,4-	97-75-0	84.6	1.0	%	E581.F1-L	31-May-2022	31-May-2022	505060
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.013	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
anthracene	120-12-7	0.040	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540

Analytical Results

WT2204544-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-052522-NG-005

Client sampling date / time: 25-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
chrysene	218-01-9	0.012	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluoranthene	206-44-0	0.117	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluorene	86-73-7	0.043	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1-	90-12-0	0.024	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1+2-	----	0.064	0.015	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 2-	91-57-6	0.040	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene	85-01-8	0.486	0.020	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
pyrene	129-00-0	0.108	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	117	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene-d8	1146-65-2	92.7	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene-d10	1517-22-2	113	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204544-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-006

Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	7.76	0.0010	mS/cm	E100	28-May-2022	28-May-2022	502956
pH	----	7.84	0.10	pH units	E108	28-May-2022	28-May-2022	502955
Anions and Nutrients								
chloride	16887-00-6	2820 DLDS,	10.0	mg/L	E235.Cl	28-May-2022	30-May-2022	502949
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	30-May-2022	30-May-2022	504606
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
barium, dissolved	7440-39-3	573 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cadmium, dissolved	7440-43-9	0.0799 DLHC,	0.0500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cobalt, dissolved	7440-48-4	1.23 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
copper, dissolved	7440-50-8	3.75 DLHC,	2.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	31-May-2022	31-May-2022	505316
molybdenum, dissolved	7439-98-7	6.93 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519

Analytical Results

WT2204544-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-006
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
selenium, dissolved	7782-49-2	0.745 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
sodium, dissolved	7440-23-5	1570000 DLHC,	5000	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
uranium, dissolved	7440-61-1	10.3 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
dissolved mercury filtration location	----	Field	-	-	EP509	-	31-May-2022	505316
dissolved metals filtration location	----	Field	-	-	EP421	-	02-Jun-2022	507519
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	30-May-2022	504601
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059

Analytical Results

WT2204544-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-006
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	91.0	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	31-May-2022	31-May-2022	505059
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	31-May-2022	31-May-2022	505060
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-Jun-2022	07-Jun-2022	506541
F1-BTEX	----	<25	25	µg/L	EC580	-	01-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	01-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-Jun-2022	07-Jun-2022	506541
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	92.6	1.0	%	E601.SG	01-Jun-2022	07-Jun-2022	506541
dichlorotoluene, 3,4-	97-75-0	88.0	1.0	%	E581.F1-L	31-May-2022	31-May-2022	505060
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.045	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
anthracene	120-12-7	0.018	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluoranthene	206-44-0	0.048	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
fluorene	86-73-7	0.074	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1-	90-12-0	0.144	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 1+2-	----	0.224	0.015	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
methylnaphthalene, 2-	91-57-6	0.080	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene	85-01-8	0.638	0.020	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
pyrene	129-00-0	0.100	0.010	µg/L	E641A	01-Jun-2022	02-Jun-2022	506540
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	103	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
naphthalene-d8	1146-65-2	115	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540
phenanthrene-d10	1517-22-2	131	0.1	%	E641A	01-Jun-2022	02-Jun-2022	506540

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204544-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-007
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	92.4	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.2	1.0	%	E611D	31-May-2022	31-May-2022	505059

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2204544-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-008
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	30-May-2022	30-May-2022	504606
Dissolved Metals								
antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
barium, dissolved	7440-39-3	473 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
cobalt, dissolved	7440-48-4	2.78 DLHC,	1.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	31-May-2022	31-May-2022	505316
molybdenum, dissolved	7439-98-7	17.4 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
nickel, dissolved	7440-02-0	9.96 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
selenium, dissolved	7782-49-2	0.701 DLHC,	0.500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
sodium, dissolved	7440-23-5	381000 DLHC,	500	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
uranium, dissolved	7440-61-1	5.51 DLHC,	0.100	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	02-Jun-2022	02-Jun-2022	507519
dissolved mercury filtration location	----	Field	-	-	EP509	-	31-May-2022	505316
dissolved metals filtration location	----	Field	-	-	EP421	-	02-Jun-2022	507519
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	30-May-2022	504601
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
benzene	71-43-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059

Analytical Results

WT2204544-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12566614-052622-NG-008
Client sampling date / time: 26-May-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	31-May-2022	31-May-2022	505059
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
styrene	100-42-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
toluene	108-88-3	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	31-May-2022	31-May-2022	505059
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	31-May-2022	31-May-2022	505059
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	31-May-2022	31-May-2022	505059
BTEX, total	----	<1.0	1.0	µg/L	E611D	31-May-2022	31-May-2022	505059
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	90.4	1.0	%	E611D	31-May-2022	31-May-2022	505059
difluorobenzene, 1,4-	540-36-3	97.6	1.0	%	E611D	31-May-2022	31-May-2022	505059
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	31-May-2022	31-May-2022	505060
F1-BTEX	----	<25	25	µg/L	EC580	-	01-Jun-2022	-
Hydrocarbons Surrogates								
dichlorotoluene, 3,4-	97-75-0	85.0	1.0	%	E581.F1-L	31-May-2022	31-May-2022	505060

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2204544**	Page	: 1 of 11
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 27-May-2022 10:30
PO	: 735-002942	Issue Date	: 07-Jun-2022 12:53
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Dissolved Metals	Anonymous	Anonymous	selenium, dissolved	7782-49-2	E421	132 % MES	70.0-130%	Recovery greater than upper data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	tetrachloroethane, 1,1,2,2-	79-34-5	E611D	34.9 % RRQC	60.0-140%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*
RRQC	*Refer to report comments for information regarding this QC result.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE										
GW-12566614-052622-NG-006	E235.Cl	26-May-2022	----	----	----		30-May-2022	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE										
GW-12566614-052522-NG-005	E235.Cl	25-May-2022	----	----	----		30-May-2022	28 days	6 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-052622-NG-006	E336	26-May-2022	----	----	----		30-May-2022	14 days	5 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-052622-NG-008	E336	26-May-2022	----	----	----		30-May-2022	14 days	5 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12566614-052522-NG-005	E336	25-May-2022	----	----	----		30-May-2022	14 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12566614-052622-NG-006	E509	26-May-2022	31-May-2022	----	----		31-May-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12566614-052622-NG-008	E509	26-May-2022	31-May-2022	----	----		31-May-2022	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12566614-052522-NG-005	E509	25-May-2022	31-May-2022	----	----		31-May-2022	28 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-052622-NG-006	E421	26-May-2022	02-Jun-2022	----	----		02-Jun-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-052622-NG-008	E421	26-May-2022	02-Jun-2022	----	----		02-Jun-2022	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12566614-052522-NG-005	E421	25-May-2022	02-Jun-2022	----	----		02-Jun-2022	180 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-006	E581.F1-L	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-008	E581.F1-L	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12566614-052522-NG-005	E581.F1-L	25-May-2022	31-May-2022	----	----		31-May-2022	14 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-052622-NG-006	E601.SG	26-May-2022	01-Jun-2022	14 days	6 days	✓	07-Jun-2022	40 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12566614-052522-NG-005	E601.SG	25-May-2022	01-Jun-2022	14 days	7 days	✓	07-Jun-2022	40 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE										
GW-12566614-052622-NG-006	E100	26-May-2022	----	----	----		28-May-2022	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE										
GW-12566614-052522-NG-005	E100	25-May-2022	----	----	----		28-May-2022	28 days	4 days	✓
Physical Tests : pH by Meter										
HDPE										
GW-12566614-052622-NG-006	E108	26-May-2022	----	----	----		28-May-2022	0.25 hrs	64 hrs	× EHTR-FM
Physical Tests : pH by Meter										
HDPE										
GW-12566614-052522-NG-005	E108	25-May-2022	----	----	----		28-May-2022	0.25 hrs	88 hrs	× EHTR-FM
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-052622-NG-006	E641A	26-May-2022	01-Jun-2022	14 days	6 days	✓	02-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12566614-052522-NG-005	E641A	25-May-2022	01-Jun-2022	14 days	7 days	✓	02-Jun-2022	40 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-052622-NG-006	E532A	26-May-2022	----	----	----		30-May-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-052622-NG-008	E532A	26-May-2022	----	----	----		30-May-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12566614-052522-NG-005	E532A	25-May-2022	----	----	----		30-May-2022	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-006	E611D	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-007	E611D	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052622-NG-008	E611D	26-May-2022	31-May-2022	----	----		31-May-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12566614-052522-NG-005	E611D	25-May-2022	31-May-2022	----	----		31-May-2022	14 days	6 days	✓

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Conductivity in Water	E100	502956	1	17	5.8	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
pH by Meter	E108	502955	1	18	5.5	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	2	16	12.5	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓
Laboratory Control Samples (LCS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Conductivity in Water	E100	502956	1	17	5.8	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	506540	1	10	10.0	5.0	✓
pH by Meter	E108	502955	1	18	5.5	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	506541	1	13	7.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	1	16	6.2	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓
Method Blanks (MB)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Conductivity in Water	E100	502956	1	17	5.8	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	506540	1	10	10.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	506541	1	13	7.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	1	16	6.2	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	505060	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	502949	1	19	5.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	504601	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	505316	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Metals in Water by CRC ICPMS	E421	507519	1	20	5.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	505059	1	16	6.2	5.0	✓
WAD Cyanide	E336	504606	1	9	11.1	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **WT2204544**	Page	: 1 of 14
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12566614	Date Samples Received	: 27-May-2022 10:30
PO	: 735-002942	Date Analysis Commenced	: 28-May-2022
C-O-C number	: ----	Issue Date	: 07-Jun-2022 12:53
Sampler	: ----		
Site	: ----		
Quote number	: 12566614-SSOW-735-002942		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 502955)											
WT2204540-030	Anonymous	pH	----	E108	0.10	pH units	6.81	6.81	0	Diff <2x LOR	----
Physical Tests (QC Lot: 502956)											
WT2204540-030	Anonymous	conductivity	----	E100	2.0	µS/cm	28.9	28.8	0.1	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 502949)											
WT2204540-030	Anonymous	chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Cyanides (QC Lot: 504606)											
WT2204494-002	Anonymous	cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 505316)											
WT2204494-002	Anonymous	mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 507519)											
WT2204494-002	Anonymous	antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		barium, dissolved	7440-39-3	E421	0.00100	mg/L	90.8 µg/L	0.0915	0.718%	20%	----
		beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		boron, dissolved	7440-42-8	E421	0.100	mg/L	<100 µg/L	<0.100	0	Diff <2x LOR	----
		cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	----
		chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		nickel, dissolved	7440-02-0	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		sodium, dissolved	7440-23-5	E421	0.500	mg/L	48200 µg/L	49.6	2.70%	20%	----
		thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		uranium, dissolved	7440-61-1	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 504601)											
WT2204494-002	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 505059)											
WT2204497-003	Anonymous	ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
WT2204497-003	Anonymous	acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 505059) - continued											
WT2204497-003	Anonymous	trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 505060)											
WT2204497-003	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 502956)						
conductivity	----	E100	1	µS/cm	1.1	----
Anions and Nutrients (QCLot: 502949)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 504606)						
cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 505316)						
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 507519)						
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Speciated Metals (QCLot: 504601)						
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 505059)						
acetone	67-64-1	E611D	20	µg/L	<20	----
benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued						
bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued						
xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 505060)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 506541)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 506540)						
acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 502955)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 502956)									
conductivity	----	E100	1	µS/cm	1409 µS/cm	96.9	90.0	110	----
Anions and Nutrients (QCLot: 502949)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.6	90.0	110	----
Cyanides (QCLot: 504606)									
cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	92.4	80.0	120	----
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	98.3	80.0	120	----
Dissolved Metals (QCLot: 507519)									
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	106	80.0	120	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	106	80.0	120	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	106	80.0	120	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	104	80.0	120	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	105	80.0	120	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	106	80.0	120	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	105	80.0	120	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	105	80.0	120	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	104	80.0	120	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	104	80.0	120	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	102	80.0	120	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	106	80.0	120	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	105	80.0	120	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	96.9	80.0	120	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	114	80.0	120	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	101	80.0	120	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	107	80.0	120	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	108	80.0	120	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	106	80.0	120	----
Speciated Metals (QCLot: 504601)									
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	100	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 505059)									
acetone	67-64-1	E611D	20	µg/L	100 µg/L	97.6	70.0	130	----
benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	99.9	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	92.6	70.0	130	----
bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	95.0	70.0	130	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	95.1	70.0	130	----
chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	93.5	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	89.5	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	97.5	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	99.4	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	114	70.0	130	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	93.4	70.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	91.2	70.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	93.9	70.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	90.5	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	86.6	70.0	130	----
dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	92.2	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	87.6	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	85.2	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	82.1	70.0	130	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	91.0	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	91.5	70.0	130	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	96.4	70.0	130	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	98.2	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	93.0	70.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	86.4	70.0	130	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	92.9	70.0	130	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	96.0	70.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued									
vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	88.8	70.0	130	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	103	70.0	130	----
xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	102	70.0	130	----
Hydrocarbons (QCLot: 505060)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	104	80.0	120	----
Hydrocarbons (QCLot: 506541)									
F2 (C10-C16)	----	E601.SG	100	µg/L	5018 µg/L	104	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6312 µg/L	130	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	6087 µg/L	82.8	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 506540)									
acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	93.6	50.0	140	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	90.6	50.0	140	----
anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	90.6	50.0	140	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	95.3	50.0	140	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	81.2	50.0	140	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	92.0	50.0	140	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	82.1	50.0	140	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	88.6	50.0	140	----
chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	94.6	50.0	140	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	99.4	50.0	140	----
fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	100	50.0	140	----
fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	95.4	50.0	140	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	98.4	50.0	140	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	90.9	50.0	140	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	84.4	50.0	140	----
naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	87.6	50.0	140	----
phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	101	50.0	140	----
pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	89.7	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 502949)										
WT2204540-030	Anonymous	chloride	16887-00-6	E235.Cl	101 mg/L	100 mg/L	101	75.0	125	----
Cyanides (QCLot: 504606)										
WT2204494-002	Anonymous	cyanide, weak acid dissociable	----	E336	0.118 mg/L	0.125 mg/L	94.8	70.0	130	----
Dissolved Metals (QCLot: 505316)										
WT2204494-003	Anonymous	mercury, dissolved	7439-97-6	E509	0.0000927 mg/L	0.0001 mg/L	92.7	70.0	130	----
Dissolved Metals (QCLot: 507519)										
WT2204494-003	Anonymous	antimony, dissolved	7440-36-0	E421	0.0610 mg/L	0.05 mg/L	122	70.0	130	----
		arsenic, dissolved	7440-38-2	E421	0.0624 mg/L	0.05 mg/L	125	70.0	130	----
		barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		beryllium, dissolved	7440-41-7	E421	0.00609 mg/L	0.005 mg/L	122	70.0	130	----
		boron, dissolved	7440-42-8	E421	0.057 mg/L	0.05 mg/L	114	70.0	130	----
		cadmium, dissolved	7440-43-9	E421	0.00600 mg/L	0.005 mg/L	120	70.0	130	----
		chromium, dissolved	7440-47-3	E421	0.0147 mg/L	0.0125 mg/L	118	70.0	130	----
		cobalt, dissolved	7440-48-4	E421	0.0143 mg/L	0.0125 mg/L	114	70.0	130	----
		copper, dissolved	7440-50-8	E421	0.0138 mg/L	0.0125 mg/L	110	70.0	130	----
		lead, dissolved	7439-92-1	E421	0.0272 mg/L	0.025 mg/L	109	70.0	130	----
		molybdenum, dissolved	7439-98-7	E421	0.0151 mg/L	0.0125 mg/L	121	70.0	130	----
		nickel, dissolved	7440-02-0	E421	0.0285 mg/L	0.025 mg/L	114	70.0	130	----
		selenium, dissolved	7782-49-2	E421	0.0658 mg/L	0.05 mg/L	132	70.0	130	MES
		silver, dissolved	7440-22-4	E421	0.00555 mg/L	0.005 mg/L	111	70.0	130	----
		sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		thallium, dissolved	7440-28-0	E421	0.0545 mg/L	0.05 mg/L	109	70.0	130	----
		uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		vanadium, dissolved	7440-62-2	E421	0.0307 mg/L	0.025 mg/L	123	70.0	130	----
		zinc, dissolved	7440-66-6	E421	0.0299 mg/L	0.025 mg/L	119	70.0	130	----
Speciated Metals (QCLot: 504601)										
WT2204494-002	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0399 mg/L	0.04 mg/L	99.7	70.0	130	----
Volatile Organic Compounds (QCLot: 505059)										
WT2204458-001	Anonymous	acetone	67-64-1	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		benzene	71-43-2	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		bromodichloromethane	75-27-4	E611D	80.0 µg/L	100 µg/L	80.0	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 505059) - continued										
WT2204458-001	Anonymous	bromoform	75-25-2	E611D	80.6 µg/L	100 µg/L	80.6	60.0	140	----
		bromomethane	74-83-9	E611D	83.4 µg/L	100 µg/L	83.4	60.0	140	----
		carbon tetrachloride	56-23-5	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		chlorobenzene	108-90-7	E611D	88.8 µg/L	100 µg/L	88.8	60.0	140	----
		chloroform	67-66-3	E611D	85.0 µg/L	100 µg/L	85.0	60.0	140	----
		dibromochloromethane	124-48-1	E611D	93.1 µg/L	100 µg/L	93.1	60.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	79.7 µg/L	100 µg/L	79.7	60.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	91.3 µg/L	100 µg/L	91.3	60.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	96.0 µg/L	100 µg/L	96.0	60.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	93.9 µg/L	100 µg/L	93.9	60.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	87.0 µg/L	100 µg/L	87.0	60.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	81.7 µg/L	100 µg/L	81.7	60.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	87.8 µg/L	100 µg/L	87.8	60.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	85.3 µg/L	100 µg/L	85.3	60.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	79.8 µg/L	100 µg/L	79.8	60.0	140	----
		dichloromethane	75-09-2	E611D	79.6 µg/L	100 µg/L	79.6	60.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	80.4 µg/L	100 µg/L	80.4	60.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	74.6 µg/L	100 µg/L	74.6	60.0	140	----
		ethylbenzene	100-41-4	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		hexane, n-	110-54-3	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	77 µg/L	100 µg/L	77.0	60.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	76.1 µg/L	100 µg/L	76.1	60.0	140	----
		styrene	100-42-5	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	87.0 µg/L	100 µg/L	87.0	60.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	34.9 µg/L	100 µg/L	34.9	60.0	140	RRQC
		tetrachloroethylene	127-18-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		toluene	108-88-3	E611D	ND µg/L	100 µg/L	ND	60.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	91.2 µg/L	100 µg/L	91.2	60.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	85.3 µg/L	100 µg/L	85.3	60.0	140	----
		trichloroethylene	79-01-6	E611D	90.9 µg/L	100 µg/L	90.9	60.0	140	----
		trichlorofluoromethane	75-69-4	E611D	96.8 µg/L	100 µg/L	96.8	60.0	140	----
		vinyl chloride	75-01-4	E611D	79.8 µg/L	100 µg/L	79.8	60.0	140	----
		xylene, m+p-	179601-23-1	E611D	134 µg/L	200 µg/L	66.8	60.0	140	----
		xylene, o-	95-47-6	E611D	69.2 µg/L	100 µg/L	69.2	60.0	140	----

Sub-Matrix: **Water**

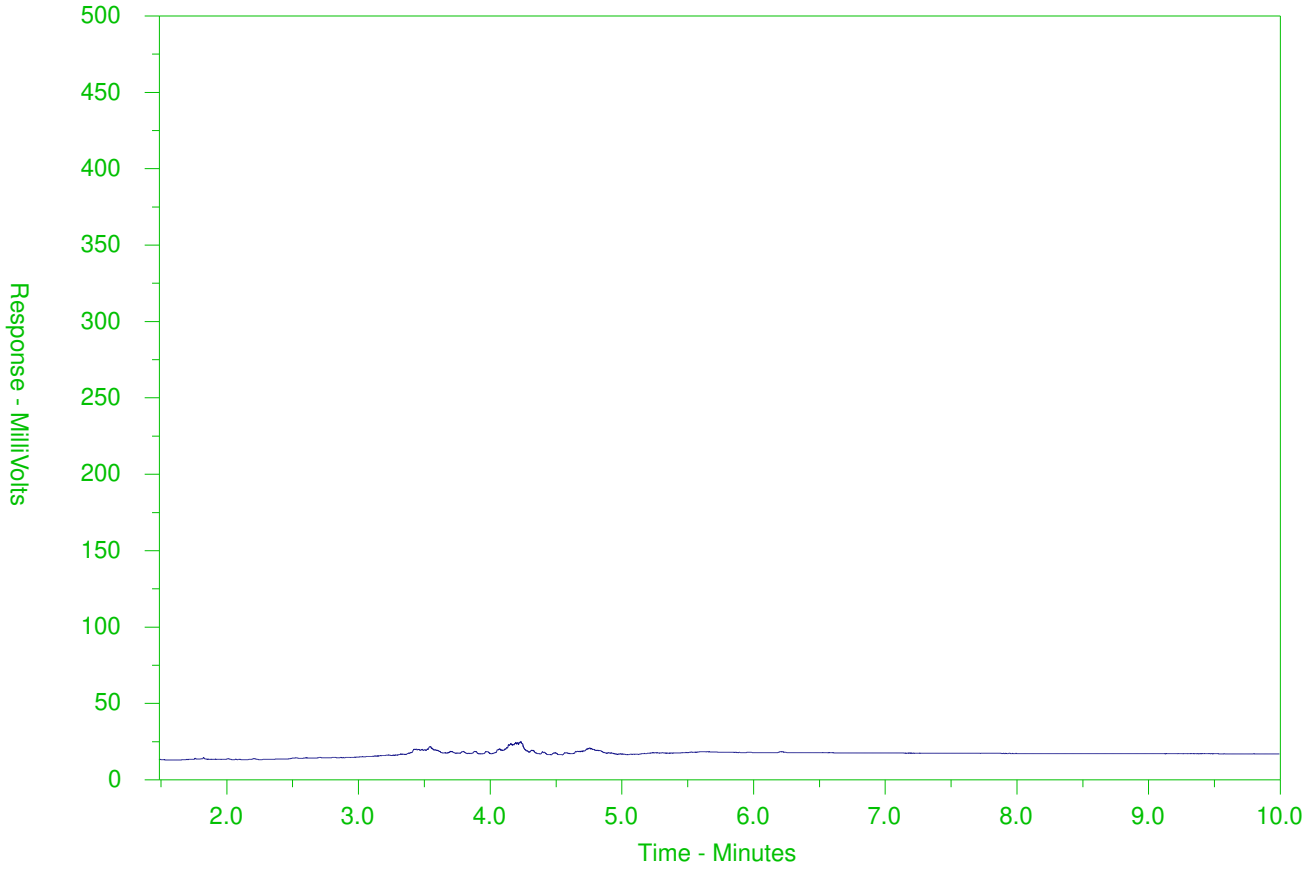
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Hydrocarbons (QCLot: 505060)										
WT2204497-003	Anonymous	F1 (C6-C10)	----	E581.F1-L	1730 µg/L	2000 µg/L	86.6	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*
RRQC	*Refer to report comments for information regarding this QC result.*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204544-001-E601.SG
Client Sample ID: GW-12566614-052522-NG-005



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

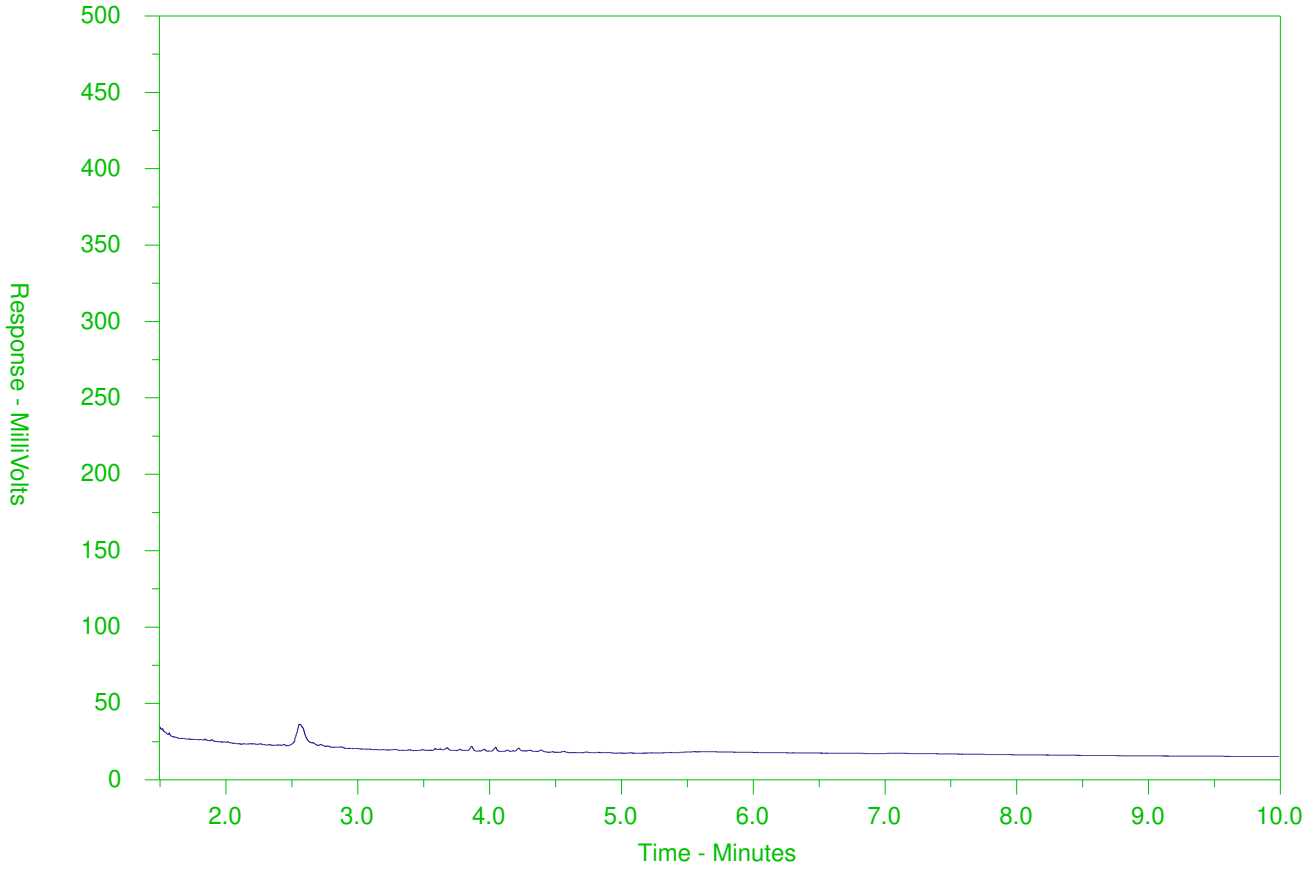
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2204544-002-E601.SG
Client Sample ID: GW-12566614-052622-NG-006



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20

Page

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2204544

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: Invoicing-Canada@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimu
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minim
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minim
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minim
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge fees may apply to rush resuests on weekends, statutory holidays routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #: GHD100/WT2022GHDL1000057
Job #: 12566614
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): WT2204544
ALS Contact: Rick H
Sampler:

Analysis Request

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metal/Inorganics	PAHS	PHC	VOCS	BTEX	Trip Blank -F1	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12566614-052522-NG-005	25-05-22	14:30	WATER	9	X	X	X	X	X				
	GW-12566614-052622-NG-006	26-05-22	10:20	WATER	9	X	X	X	X	X				
	GW-12566614-052622-NG-007	26-05-22	10:45	WATER	2				X					
	GW-12566614-052622-NG-008	26-05-22	13:00	WATER	6	X		X	X					
	Trip Blank	26-05-22	N/A	WATER	2						X			
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										
				WATER										

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO
Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☑ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
13.3			3.6	5.9	1.9	

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
N Gaudin	26/5/22	14:40

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	26/5/22	2:40

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	05/27/22	1030

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Appendix C

Data Quality Assessment and Verification

Technical Memorandum

June 17, 2022

To	Joseph Drader	**Tel**	450-902-4349
Copy to	Nidhi Gupta	**Email**	pascal.renella@ghd.com
From	Pascal Renella/an/01	**Ref. No.**	12566614
Subject	Data Quality Assessment and Verification		

Laboratory:	ALS Canada Ltd.
Lab Job No.:	L2702132, WT2204113, WT2204544
Date(s) Sampled:	April 28; May 17, 25, 26, 2022
Media Sampled:	Soil and Groundwater

QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
Holding Times	Analyte specific	☒	☐	☐	☐
Temperature	<10ºC at receipt	☐	☒	☐	☐
Sample Preservation	Required container/preservatives	☒	☐	☐	☐
Field Duplicate (blind)	Within 50% of original/<1xRL	☒	☐	☐	☐
Field Blank (blind)	Non detect	☐	☐	☐	☒
Trip Blank	Non detect	☐	☐	☐	☒
Lab QA/QC	Within standard recoveries	☒	☐	☐	☐

The following results are qualified due to high temperature (13.3°C) upon arrival at the laboratory:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	conductivity	2.90	J	mS/cm
WT2204544	05/25/22	GW-12566614-052522-NG-005	pH	7.54	J	pH units
WT2204544	05/25/22	GW-12566614-052522-NG-005	chloride	749	J	mg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	cyanide, weak acid dissociable	2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	antimony, dissolved	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	arsenic, dissolved	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	barium, dissolved	129	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	beryllium, dissolved	0.2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	boron, dissolved	100	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	cadmium, dissolved	0.05	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chromium, dissolved	5	UJ	µg/L

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	cobalt, dissolved	1.46	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	copper, dissolved	2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	lead, dissolved	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	mercury, dissolved	0.005	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	molybdenum, dissolved	7.98	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	nickel, dissolved	5.87	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	selenium, dissolved	0.914	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	silver, dissolved	0.1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	sodium, dissolved	336000	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	thallium, dissolved	0.1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	uranium, dissolved	10.4	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	vanadium, dissolved	5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	zinc, dissolved	10	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chromium, hexavalent [Cr VI], dissolved	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	acetone	20	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	bromodichloromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	bromoform	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	bromomethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	carbon tetrachloride	0.2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chlorobenzene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chloroform	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dibromochloromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dibromoethane, 1,2-	0.2	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorobenzene, 1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorobenzene, 1,3-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorobenzene, 1,4-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichlorodifluoromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethane, 1,1-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethane, 1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethylene, 1,1-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethylene, cis-1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloroethylene, trans-1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloromethane	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropane, 1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropylene, cis+trans-1,3-	0.5	UJ	µg/L

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropylene, cis-1,3-	0.3	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dichloropropylene, trans-1,3-	0.3	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	ethylbenzene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	hexane, n-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methyl ethyl ketone [MEK]	20	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methyl isobutyl ketone [MIBK]	20	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methyl-tert-butyl ether [MTBE]	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	styrene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	tetrachloroethane, 1,1,1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	tetrachloroethane, 1,1,2,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	tetrachloroethylene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	toluene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichloroethane, 1,1,1-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichloroethane, 1,1,2-	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichloroethylene	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	trichlorofluoromethane	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	vinyl chloride	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	xylene, m+p-	0.4	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	xylene, o-	0.3	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	xylenes, total	0.5	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	BTEX, total	1	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F1 (C6-C10)	25	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F2 (C10-C16)	100	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F3 (C16-C34)	250	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F4 (C34-C50)	250	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	F1-BTEX	25	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	hydrocarbons, total (C6-C50)	370	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	acenaphthene	0.013	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	acenaphthylene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	anthracene	0.040	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benz(a)anthracene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(a)pyrene	0.005	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(b+j)fluoranthene	0.01	UJ	µg/L

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(g,h,i)perylene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	benzo(k)fluoranthene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	chrysene	0.012	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	dibenz(a,h)anthracene	0.005	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	fluoranthene	0.117	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	fluorene	0.043	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	indeno(1,2,3-c,d)pyrene	0.01	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methylnaphthalene, 1+2-	0.064	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methylnaphthalene, 1-	0.024	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	methylnaphthalene, 2-	0.040	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	naphthalene	0.05	UJ	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	phenanthrene	0.486	J	µg/L
WT2204544	05/25/22	GW-12566614-052522-NG-005	pyrene	0.108	J	µg/L

Conclusions:

Based on the assessment detailed in the foregoing, the data summarized are acceptable with the specific qualifications noted above.

Notes:

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
BTEX - Benzene, Toluene, Ethylbenzene, Xylene
QA/QC - Quality Assurance/Quality Control
RL - Reporting Limit
N/A - Not Applicable

Data verification reference documents:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, September 2016.
2. "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", Laboratory Services Branch, Ministry of the Environment, March 9, 2004, amended as of July 1, 2011

Regards



Pascal Renella
Data Management - Data Validator


GHD

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Our ref: 12646241

05 September 2024

Margaret Wolodarkski
Program Manager, Ottawa Innovation Campus
Nokia Canada Inc.
600 March Road
Ottawa, Ontario K2K 2T6

Groundwater Sampling Activities, Nokia Property Redevelopment, 600 March Road, Kanata (Ottawa), Ontario

GHD has prepared this letter for Nokia Canada Inc. (Nokia) to present the findings of the groundwater sampling activities completed on April 27th, 2023, in the southern parking lot area of the Nokia Property located at 600 March Road in Kanata (Ottawa), Ontario (Site or Property). GHD previously completed the following environmental assessments at the Site, including:

– Phase One Environmental Site Assessment (ESA), 600 March Road, Kanata (Ottawa), Ontario, dated April 20, 2022.
– Phase Two Environmental Site Assessment (ESA), 600 March Road, Kanata (Ottawa), Ontario, dated July 19, 2022.

These reports were completed for the entire Nokia Property, which includes both the southern parking lot area and northern office campus area. Based on a review of the 2022 groundwater analytical results, all groundwater concentrations from the southern parking lot area were below applicable Ontario Ministry of Environment, Conservation, and Parks (MECP) standards. This letter will focus on current groundwater sampling activities and laboratory analytical results from the southern parking lot area, as part of due diligence and future municipal planning approval purposes.

GHD also completed additional geotechnical and hydrogeological assessments in the southern parking lot of the Site at the time of the current groundwater sampling activities. Details regarding specific Site geology (i.e., stratigraphy, bedrock conditions, etc.) and hydrogeological details (i.e., groundwater depth/elevation, flow direction, hydraulic conductivity, etc.) are addressed in those report(s).

1. Field Program

GHD conducted groundwater sampling activities on April 27, 2023, at six existing groundwater monitoring wells installed in 2022 (BH01-22, BH02-22, BH03-22, BH06-22, BH11-22, and BH12-22) and three new monitoring wells installed in 2023 (BH3-23, BH4-23, and BH6-23). Borehole and monitoring well locations are presented on **Figure 1**. Borehole and monitoring well construction details are presented in above noted ESA documents and 2023 geotechnical and hydrogeological assessment report(s).

In order to ensure that samples representative of on-Site groundwater conditions was obtained, each monitoring well was purged prior to groundwater sample collection using dedicated tubing and peristaltic pump (for low-flow sampling). The following protocol was generally followed at each monitoring well location during well purging activities:

– Groundwater level measurements were collected prior and subsequent to well development activities using a calibrated oil/water interface probe. The depth to water was measured relative to a specific reference point in the monitoring well.
– Where low-flow sampling techniques were used, a minimum of three well volumes of water were purged from the monitoring well. In the event that slow groundwater recharge conditions were encountered, the well was purged until dry and then allowed to recover prior to sample collection. Field measurements of temperature, pH, turbidity, and electrical conductivity were taken using a water quality meter after each purged well volume was removed until consistent field measurements were recorded indicating that water in the well was representative of the actual groundwater conditions.
– Groundwater in the monitoring well was allowed to recover and settle prior to sample collection to reduce sediment agitation and mobilization in volatile and semi-volatile samples.

Groundwater samples were collected from a total of nine monitoring wells (BH01-22, BH02-22, BH03-22, BH06-22, BH11-22, BH12-22, BH3-23, BH4-23, and BH6-23), with one duplicate sample collected from BH3-23 for quality assurance/quality control (QA/QC) purposes.

The groundwater samples were collected and placed directly into laboratory-supplied sample containers specific to the analytical parameters. Groundwater samples were submitted for laboratory analysis of the following parameters: metals/inorganics, petroleum hydrocarbons (PHC F_1 to F_4), volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs). Groundwater samples collected for metals analysis were field filtered using a 0.45-micron filter prior to sample collection. Samples were stored in coolers chilled with ice for sample preservation and submitted to the laboratory for analysis under chain-of-custody protocol. The chain-of-custody forms document the condition and handling of the samples throughout the collection, transportation, and final analysis of the samples.

2. Regulatory Standards

This section presents the regulatory standards that were used to evaluate the analytical results of the groundwater samples collected at the Site. GHD compared the analytical results to the generic Site Condition Standards (SCS) provided in the Ontario Ministry of the Environment[1] (MOE) document entitled, "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act," dated April 15, 2011 (hereafter referred to as the 2011 MECP Standards).

Based on the Site conditions and the definition of area of natural significance provided in Ontario Regulation (O. Reg.) 153/04, the groundwater analytical results on the Site were assessed to the MECP Table 7: Full Depth Generic Site Conditions Standards for Shallow Soils in a Non-Potable Ground Water Condition (MECP Table 7 Standard). The regulatory standards used to evaluate the 2023 analytical results are consistent with those used in the 2022 Phase Two ESA (GHD).

[1] Ministry of the Environment (MOE) was renamed the Ministry of Environment and Climate Change (MECP) on July 3, 2014, and renamed again on July 1, 2018, to Ministry of the Environment, Conservation, and Parks (MECP), and as a result all references to the "Ministry of the Environment", "MOE", and MECP refer to the MECP.

3. Analytical Results

A summary of the groundwater quality results compared to MECP Table 7 Standards is presented in **Table 1**. A copy of the ALS laboratory certificates of analysis is provided in **Attachment 1**. GHD also completed quality assessment and verification of the groundwater analytical data as presented in the technical memorandum provided in **Attachment 2**, with the data summarized as acceptable without qualification.

Based on GHD's review, all parameters were reported below MECP Table 7 Standards for the groundwater samples collected on April 27, 2023. These results are similar to the groundwater analytical results from the 2022 Phase Two ESA.

4. Conclusion

Based on the groundwater analytical results collected as part of the April 27th, 2023, sampling activities, all groundwater parameters were reported below MECP Table 7 Standards. These results are similar to the groundwater analytical results from the 2022 Phase Two ESA. No further groundwater sampling activities are recommended at this time.

We trust this meets your needs at this time.

Regards,
GHD



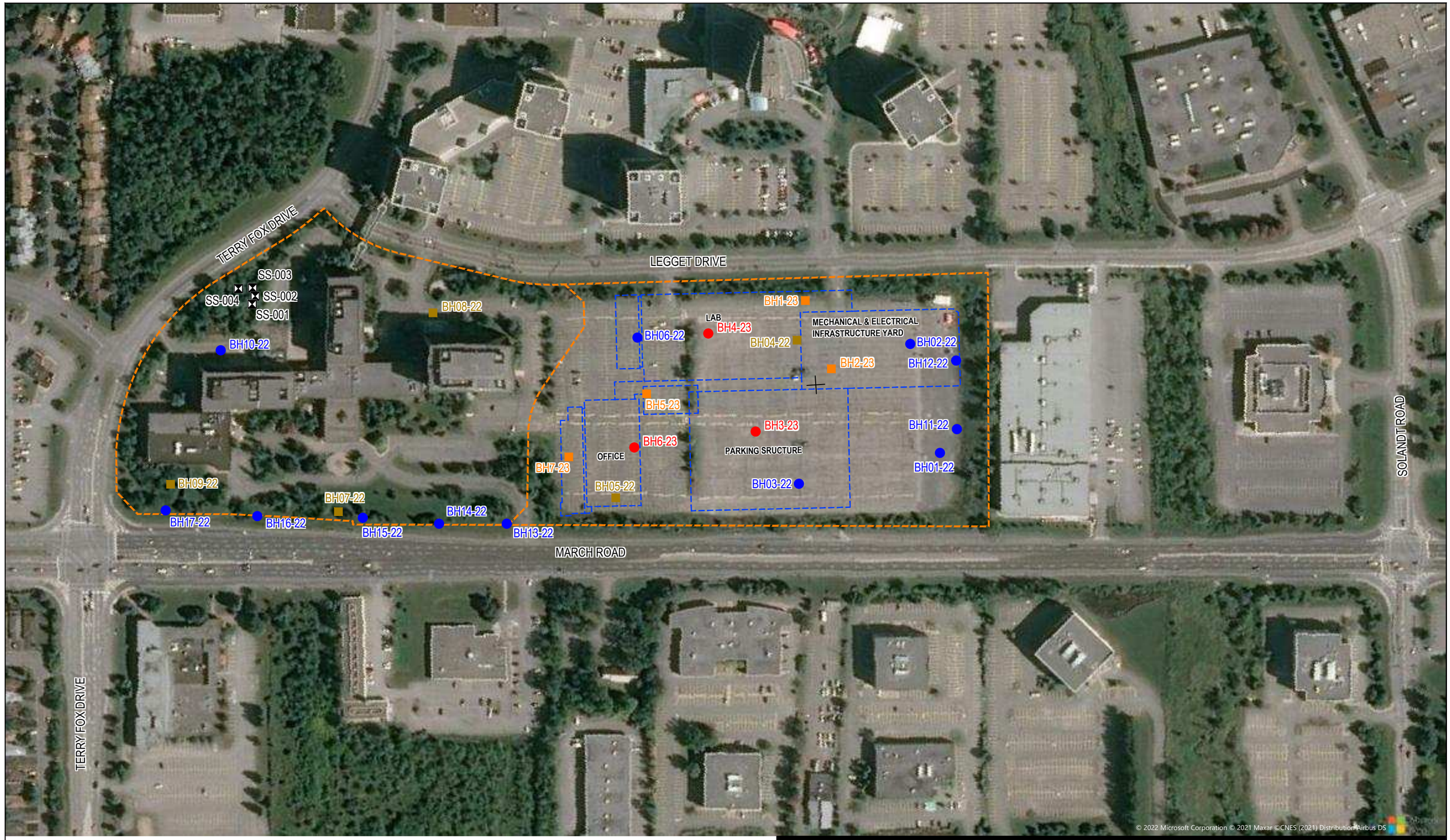
Kevin Emenau, P.Geo.



Warren Croft, P. Eng.

Encl

Figures



LEGEND

- PROPERTY BOUNDARY
- PROPOSED BUILDING OUTLINE
- SOIL SAMPLING LOCATION (GHD, 2022)
- BOREHOLE LOCATION (GHD, 2022)
- BOREHOLE LOCATION (GHD, 2023)
- MONITORING WELL (GHD, 2022)
- MONITORING WELL (GHD, 2023)

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum,
Zone 18, Meter;

GHD

NOKIA CANADA INC.
NOKIA PROPERTY REDEVELOPMENT
GROUNDWATER SAMPLING ACTIVITIES
600 MARCH ROAD, KANATA (OTTAWA), ON

BOREHOLE/WELL LOCATION PLAN

Project No. **12606873**
Date **May 2023**

FIGURE 1

Filename: \\ghdnet\ghd\CA\Ottawa\Projects\661\12606873\Digital_Design\ACAD\Figures\RPT001-Geotech\12606873-GHD-00-00-RPT-EN-D101_WA-001- Enviro, jm.dwg
Plot Date: 12 May 2023 1:27 PM

Tables

Table 1

Summary of Groundwater Analysis
Groundwater Sampling Activities
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH03-22	BH06-22	BH11-22	BH12-22	BH3-23	BH3-23	BH4-23	BH6-23
Sample ID (GW-12606873-270423-DA-###):			-BH01-22	-BH02-22	-BH03-22	-BH06-22	-BH11-22	-BH12-22	-BH3-23	-DUP	-BH4-23	-BH6-23
Sample Date:			27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023
Sample Type:			Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**										
Physical Tests												
Conductivity	mS/cm	--	2.53	3.26	3.12	6.4	3.54	3.81	1.88	1.86	4.92	5.95
pH	-	--	7.88	7.57	7.93	8.04	7.71	7.71	8.16	8.14	7.81	7.74
Anions and Nutrients												
Chloride	ug/L	1800000	564000	695000	555000	1730000	895000	970000	187000	185000	1240000	1390000
Cyanides												
Cyanide	ug/L	52	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Metals												
Antimony	ug/L	16000	0.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Arsenic	ug/L	1500	0.2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	4.53	<1.00
Barium	ug/L	23000	200	185	74.8	65.3	246	226	52.2	43.6	59.1	66.7
Beryllium	ug/L	53	<0.020	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Boron	ug/L	36000	24	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium	ug/L	2.1	0.022	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Chromium	ug/L	640	<0.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	ug/L	52	<0.10	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Copper	ug/L	69	0.95	<2.00	2.31	7.16	<2.00	2.06	16	14.1	<2.00	8.14
Lead	ug/L	20	<0.050	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Mercury	ug/L	0.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	ug/L	7300	1.17	0.717	1.19	7.24	10.8	1.09	3.01	3.03	5.33	6.9
Nickel	ug/L	390	<0.50	<5.00	<5.00	<5.00	6.16	<5.00	11	10	<5.00	<5.00
Selenium	ug/L	50	0.447	<0.500	0.652	<0.500	<0.500	<0.500	0.797	0.846	<0.500	<0.500
Silver	ug/L	1.2	<0.010	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Sodium	ug/L	1800000	237000	342000	214000	967000	356000	390000	255000	227000	702000	854000
Thallium	ug/L	400	0.019	<0.100	<0.100	<0.100	<0.100	0.141	<0.100	<0.100	<0.100	<0.100
Uranium	ug/L	330	2.67	1.69	3.21	4.42	6.32	4.36	3.8	3.66	45.2	7.48
Vanadium	ug/L	200	<0.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Zinc	ug/L	890	3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Hexavalent Chromium	ug/L	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hydrocarbons												
F1 (C6-C10)	ug/L	420	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F1-BTEX	ug/L	420	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	ug/L	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F2-naphthalene	ug/L	--	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	ug/L	500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
F3-PAH	ug/L	--	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	ug/L	500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)	ug/L	--	<370	<370	<370	<370	<370	<370	<370	<370	<370	<370

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Table 1

Summary of Groundwater Analysis
Groundwater Sampling Activities
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH03-22	BH06-22	BH11-22	BH12-22	BH3-23	BH3-23	BH4-23	BH6-23
Sample ID (GW-12606873-270423-DA-###):			-BH01-22	-BH02-22	-BH03-22	-BH06-22	-BH11-22	-BH12-22	-BH3-23	-DUP	-BH4-23	-BH6-23
Sample Date:			27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023
Sample Type:			Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**										
Volatile Organic Compounds												
Acetone	ug/L	100000	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	ug/L	67000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	ug/L	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	ug/L	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	ug/L	2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.47
Dibromochloromethane	ug/L	65000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	ug/L	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	7600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	3500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis+trans-1,3-Dichloropropylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	ug/L	54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexane (n)	ug/L	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone [MEK]	ug/L	21000	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone [MIBK]	ug/L	5200	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Methyl-Tert-Butyl Ether [MTBE]	ug/L	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	ug/L	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	ug/L	320	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	ug/L	23	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	ug/L	2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m+p-Xylene	ug/L	--	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
o-Xylene	ug/L	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Total Xylenes	ug/L	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Table 1

Summary of Groundwater Analysis
Groundwater Sampling Activities
600 March Road, Ottawa, Ontario

Sample Location:			BH01-22	BH02-22	BH03-22	BH06-22	BH11-22	BH12-22	BH3-23	BH3-23	BH4-23	BH6-23
Sample ID (GW-12606873-270423-DA-###):			-BH01-22	-BH02-22	-BH03-22	-BH06-22	-BH11-22	-BH12-22	-BH3-23	-DUP	-BH4-23	-BH6-23
Sample Date:			27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023	27-Apr-2023
Sample Type:			Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original
Stratigraphy			Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock
Parameters	**Units**	**MECP Table 7 All Property Types**										
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	ug/L	17	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Acenaphthylene	ug/L	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	ug/L	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	ug/L	1.8	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	ug/L	0.81	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	ug/L	0.75	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	ug/L	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	ug/L	0.4	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	ug/L	0.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	ug/L	0.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	ug/L	44	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluorene	ug/L	290	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Indeno(1,2,3-c,d)pyrene	ug/L	0.2	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1+2-Methylnaphthalene	ug/L	1500	<0.015	0.019	<0.015	0.015	<0.015	<0.015	<0.015	<0.015	0.017	<0.015
1-Methylnaphthalene	ug/L	1500	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2-Methylnaphthalene	ug/L	1500	<0.010	0.019	<0.010	0.015	0.013	0.012	<0.010	<0.010	0.017	0.013
Naphthalene	ug/L	7	<0.050	0.06	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	ug/L	380	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	ug/L	5.7	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

Notes:
µg/L - microgram per litre
<0.0068 - Not detected at the associated detection limit
Bold/Border - Detected concentration exceeds the
(1) MECP Table 7: Full Depth Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition.

Attachments

Attachment 1

Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

Work Order	: **WT2311250**	Page	: 1 of 29
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12606873-003.02	Date Samples Received	: 28-Apr-2023 08:25
PO	: 735-006550	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 05-May-2023 21:27
Sampler	: ----		
Site	: ----		
Quote number	: 12606873-003.02-SSOW-735-006550		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*

Analytical Results

WT2311250-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH02-22
Client sampling date / time: 27-Apr-2023 09:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.26	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.57	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	695 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	185 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	<2.00 DLHC	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	0.717 DLHC	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	342000 DLHC	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	1.69 DLHC	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH02-22
Client sampling date / time: 27-Apr-2023 09:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	74.1	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	83.7	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.4	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	97.1	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH02-22

Client sampling date / time: 27-Apr-2023 09:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	0.019	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.019	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	0.060	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	98.2	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22

Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.81	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.71	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	970 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	226 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22
Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	2.06 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	1.09 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	390000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	0.141 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	4.36 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22
Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.1	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	89.6	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089

Analytical Results

WT2311250-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH12-22

Client sampling date / time: 27-Apr-2023 10:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.012	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	103	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH01-22

Client sampling date / time: 27-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	2.53	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.88	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	564 DLDS.	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	0.13	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	0.20	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	200	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	24	10	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	0.0220	0.0050	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<0.50	0.50	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<0.10	0.10	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	0.95	0.20	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	1.17	0.050	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<0.50	0.50	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.447	0.050	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	237000	50	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	0.019	0.010	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH01-22
Client sampling date / time: 27-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	2.67	0.010	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<0.50	0.50	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	3.0	1.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH01-22
Client sampling date / time: 27-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.9	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	93.3	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.4	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.8	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH11-22
Client sampling date / time: 27-Apr-2023 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.54	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.71	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	895 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	246 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	10.8 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	6.16 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	356000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	6.32 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH11-22
Client sampling date / time: 27-Apr-2023 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.3	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	93.2	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.1	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	97.0	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH11-22

Client sampling date / time: 27-Apr-2023 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.013	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	101	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	101	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22

Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	3.12	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.93	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	555 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	74.8 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22
Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	2.31 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	1.19 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.652 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	214000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	3.21 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22
Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.8	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	81.0	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089

Analytical Results

WT2311250-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH03-22

Client sampling date / time: 27-Apr-2023 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	100	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	103	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH3-23

Client sampling date / time: 27-Apr-2023 15:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	1.88	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	8.16	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	187 DLDS.	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	52.2 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC.	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC.	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC.	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	16.0 DLHC.	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	3.01 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	11.0 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.797 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	255000 DLHC.	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH3-23
Client sampling date / time: 27-Apr-2023 15:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	3.80 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH3-23
Client sampling date / time: 27-Apr-2023 15:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.7	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.0	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.7	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	98.2	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	100	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-DUP
Client sampling date / time: 27-Apr-2023 15:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	1.86	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	8.14	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	185 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	43.6 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	14.1 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	3.03 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	10.0 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	0.846 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	227000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	3.66 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-007

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-DUP
Client sampling date / time: 27-Apr-2023 15:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	76.1	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	90.4	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.3	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.6	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-DUP

Client sampling date / time: 27-Apr-2023 15:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	100	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23

Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	4.92	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.81	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	1240 DLDS	2.50	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	4.53 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	59.1 DLHC	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC	100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-008

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23
Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	<2.00 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	5.33 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	702000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	45.2 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-008

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23
Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	76.8	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	95.0	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.4	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.6	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089

Analytical Results

WT2311250-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH4-23

Client sampling date / time: 27-Apr-2023 17:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	0.017	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.017	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	116	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	102	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH06-22

Client sampling date / time: 27-Apr-2023 18:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	6.40	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	8.04	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	1730 DLDS.	5.00	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	65.3 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC.	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC.	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC.	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC.	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	7.16 DLHC.	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	7.24 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC.	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	967000 DLHC.	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817

Analytical Results

WT2311250-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH06-22
Client sampling date / time: 27-Apr-2023 18:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	4.42 DLHC.	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC.	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC.	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP.	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP.	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP.	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH06-22
Client sampling date / time: 27-Apr-2023 18:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Vinyl chloride	75-01-4	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50 OWP.	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0 OWP.	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.9	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	95.1	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.3	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.5	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	99.5	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	101	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311250-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH6-23
Client sampling date / time: 27-Apr-2023 19:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity	----	5.95	0.0010	mS/cm	E100	02-May-2023	03-May-2023	919322
pH	----	7.74	0.10	pH units	E108	02-May-2023	03-May-2023	919320
Anions and Nutrients								
Chloride	16887-00-6	1390 DLDS,	5.00	mg/L	E235.Cl	02-May-2023	03-May-2023	919318
Cyanides								
Cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	03-May-2023	03-May-2023	920319
Dissolved Metals								
Antimony, dissolved	7440-36-0	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Arsenic, dissolved	7440-38-2	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Barium, dissolved	7440-39-3	66.7 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Beryllium, dissolved	7440-41-7	<0.200 DLHC,	0.200	µg/L	E421	01-May-2023	01-May-2023	917817
Boron, dissolved	7440-42-8	<100 DLHC,	100	µg/L	E421	01-May-2023	01-May-2023	917817
Cadmium, dissolved	7440-43-9	<0.0500 DLHC,	0.0500	µg/L	E421	01-May-2023	01-May-2023	917817
Chromium, dissolved	7440-47-3	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Cobalt, dissolved	7440-48-4	<1.00 DLHC,	1.00	µg/L	E421	01-May-2023	01-May-2023	917817
Copper, dissolved	7440-50-8	8.14 DLHC,	2.00	µg/L	E421	01-May-2023	01-May-2023	917817
Lead, dissolved	7439-92-1	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	02-May-2023	02-May-2023	918531
Molybdenum, dissolved	7439-98-7	6.90 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Nickel, dissolved	7440-02-0	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Selenium, dissolved	7782-49-2	<0.500 DLHC,	0.500	µg/L	E421	01-May-2023	01-May-2023	917817
Silver, dissolved	7440-22-4	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Sodium, dissolved	7440-23-5	854000 DLHC,	500	µg/L	E421	01-May-2023	01-May-2023	917817
Thallium, dissolved	7440-28-0	<0.100 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Uranium, dissolved	7440-61-1	7.48 DLHC,	0.100	µg/L	E421	01-May-2023	01-May-2023	917817
Vanadium, dissolved	7440-62-2	<5.00 DLHC,	5.00	µg/L	E421	01-May-2023	01-May-2023	917817
Zinc, dissolved	7440-66-6	<10.0 DLHC,	10.0	µg/L	E421	01-May-2023	01-May-2023	917817
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	918531
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	917817
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	01-May-2023	917553
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Chloroform	67-66-3	1.47	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951

Analytical Results

WT2311250-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH6-23
Client sampling date / time: 27-Apr-2023 19:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	02-May-2023	02-May-2023	917951
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	02-May-2023	02-May-2023	917951
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	02-May-2023	02-May-2023	917951
BTEX, total	----	<1.0	1.0	µg/L	E611D	02-May-2023	02-May-2023	917951
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	02-May-2023	02-May-2023	917952
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	05-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	05-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	02-May-2023	05-May-2023	918090
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	03-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	02-May-2023	05-May-2023	918090
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.5	1.0	%	E601.SG	02-May-2023	05-May-2023	918090
Dichlorotoluene, 3,4-	95-75-0	97.2	1.0	%	E581.F1-L	02-May-2023	02-May-2023	917952
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.1	1.0	%	E611D	02-May-2023	02-May-2023	917951
Difluorobenzene, 1,4-	540-36-3	96.5	1.0	%	E611D	02-May-2023	02-May-2023	917951
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2311250-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12606873-270423-DA-BH6-23

Client sampling date / time: 27-Apr-2023 19:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	02-May-2023	05-May-2023	918089
Methylnaphthalene, 2-	91-57-6	0.013	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	02-May-2023	05-May-2023	918089
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	02-May-2023	05-May-2023	918089
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	02-May-2023	05-May-2023	918089
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	113	0.1	%	E641A	02-May-2023	05-May-2023	918089
Naphthalene-d8	1146-65-2	106	0.1	%	E641A	02-May-2023	05-May-2023	918089
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A	02-May-2023	05-May-2023	918089

Please refer to the General Comments section for an explanation of any qualifiers detected.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2311250**	Page	: 1 of 19
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12606873-003.02	Date Samples Received	: 28-Apr-2023 08:25
PO	: 735-006550	Issue Date	: 05-May-2023 21:27
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: 12606873-003.02-SSOW-735-006550		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH01-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH02-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH03-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH06-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH11-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH12-22	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH3-23	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH4-23	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH6-23	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12606873-270423-DA-DUP	E235.Cl	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH01-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH02-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH03-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH06-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH11-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH12-22	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH3-23	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH4-23	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-BH6-23	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Cyanides : WAD Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
GW-12606873-270423-DA-DUP	E336	27-Apr-2023	03-May-2023	----	----		03-May-2023	14 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH01-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH02-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH03-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH06-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12606873-270423-DA-BH11-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH12-22	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH3-23	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH4-23	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-BH6-23	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) GW-12606873-270423-DA-DUP	E509	27-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH01-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH02-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH03-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH06-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH11-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH12-22	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH3-23	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH4-23	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-BH6-23	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) GW-12606873-270423-DA-DUP	E421	27-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH01-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH03-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH06-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH11-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH3-23	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH4-23	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH6-23	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-DUP	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH02-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH12-22	E581.F1-L	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12606873-270423-DA-BH01-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12606873-270423-DA-BH02-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH03-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH06-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH11-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH12-22	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH3-23	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH4-23	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH6-23	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-DUP	E601.SG	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12606873-270423-DA-BH01-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH02-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH03-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH06-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH11-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH12-22	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH3-23	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH4-23	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-BH6-23	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] GW-12606873-270423-DA-DUP	E100	27-Apr-2023	02-May-2023	----	----		03-May-2023	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH01-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH02-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH03-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH06-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH11-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH12-22	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH3-23	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH4-23	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] GW-12606873-270423-DA-BH6-23	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12606873-270423-DA-DUP	E108	27-Apr-2023	02-May-2023	----	----		03-May-2023	14 days	6 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH01-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH02-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH03-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH06-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH11-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH12-22	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH3-23	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH4-23	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-BH6-23	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12606873-270423-DA-DUP	E641A	27-Apr-2023	02-May-2023	14 days	5 days	✓	05-May-2023	40 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH01-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH02-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH03-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH06-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH11-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH12-22	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH3-23	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH4-23	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-BH6-23	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
GW-12606873-270423-DA-DUP	E532A	27-Apr-2023	----	----	----		01-May-2023	28 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH01-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH03-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH06-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH11-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH3-23	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12606873-270423-DA-BH4-23	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH6-23	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-DUP	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	4 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH02-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12606873-270423-DA-BH12-22	E611D	27-Apr-2023	02-May-2023	----	----		02-May-2023	14 days	5 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓
Conductivity in Water	E100	919322	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
pH by Meter	E108	919320	1	19	5.2	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓
Laboratory Control Samples (LCS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓
Conductivity in Water	E100	919322	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	918089	1	20	5.0	5.0	✓
pH by Meter	E108	919320	1	19	5.2	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	918090	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓
Method Blanks (MB)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓
Conductivity in Water	E100	919322	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	918089	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	918090	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	917952	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	919318	1	19	5.2	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	917553	1	14	7.1	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	918531	1	14	7.1	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	917817	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	917951	1	10	10.0	5.0	✓
WAD Cyanide	E336	920319	1	19	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Sample extracts are analyzed by GC-FID for CCME hydrocarbon fractions (F2-F4), as per the CCME Analytical Methods Guidance Manual (2016)

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs (Eastern Canada List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **WT2311250**	Page	: 1 of 14
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 12606873-003.02	Date Samples Received	: 28-Apr-2023 08:25
PO	: 735-006550	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 05-May-2023 21:27
Sampler	: ---- 519 725 3313		
Site	: ----		
Quote number	: 12606873-003.02-SSOW-735-006550		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 919320)											
WT2310984-003	Anonymous	pH	----	E108	0.10	pH units	8.26	8.28	0.242%	4%	----
Physical Tests (QC Lot: 919322)											
WT2311088-001	Anonymous	Conductivity	----	E100	1.0	µS/cm	2.73 mS/cm	2730	0.00%	10%	----
Anions and Nutrients (QC Lot: 919318)											
WT2310984-003	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	76.8	76.7	0.174%	20%	----
Cyanides (QC Lot: 920319)											
WT2310848-001	Anonymous	Cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 917817)											
WT2311250-001	GW-12606873-270423-DA-BH02-22	Antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00100	mg/L	185 µg/L	0.182	1.59%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.100	mg/L	<100 µg/L	<0.100	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	0.717 µg/L	0.000872	0.000154	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.500	mg/L	342000 µg/L	341	0.139%	20%	----
		Thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000100	mg/L	1.69 µg/L	0.00173	2.54%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 918531)											
WT2310848-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 917553)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Speciated Metals (QC Lot: 917553) - continued											
WT2311225-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 917951)											
WT2311250-001	GW-12606873-270423-DA-BH02-22	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 917951) - continued											
WT2311250-001	GW-12606873-270423-DA-BH02-22	Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 917952)											
WT2311250-001	GW-12606873-270423-DA-BH02-22	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 919322)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Anions and Nutrients (QCLot: 919318)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 920319)						
Cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 917817)						
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Dissolved Metals (QCLot: 918531)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 917553)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 917951)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued						
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued						
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 917952)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 918090)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 918089)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 919320)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 919322)									
Conductivity	----	E100	1	µS/cm	1409 µS/cm	102	90.0	110	----
Anions and Nutrients (QCLot: 919318)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 920319)									
Cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	99.2	80.0	120	----
Dissolved Metals (QCLot: 917817)									
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	100	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	104	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	95.6	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	93.0	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	99.3	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	96.5	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	95.9	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	95.7	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	101	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	98.4	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	96.9	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	96.9	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	91.0	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	98.7	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	103	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	98.5	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	98.9	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	97.9	80.0	120	----
Speciated Metals (QCLot: 917553)									

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Speciated Metals (QCLot: 917553) - continued									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	97.5	80.0	120	----
Volatile Organic Compounds (QCLot: 917951)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	103	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	90.2	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	110	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	98.7	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	97.9	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	99.5	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	91.8	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	93.3	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	94.7	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	97.4	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	97.1	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	104	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	97.3	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	98.6	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	101	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	101	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	97.8	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	99.5	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	96.5	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	92.0	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	96.7	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	99.0	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued									
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	99.2	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	96.7	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	97.0	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	100	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	109	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	102	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	99.7	70.0	130	----
Hydrocarbons (QCLot: 917952)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	112	80.0	120	----
Hydrocarbons (QCLot: 918090)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4613.474 µg/L	91.0	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6464.481 µg/L	91.7	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4040.361 µg/L	95.6	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 918089)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	85.0	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	89.8	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	91.9	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	99.6	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	92.4	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	85.0	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	118	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	87.0	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	99.6	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	102	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	95.7	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	91.8	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	82.6	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	81.3	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	81.3	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	91.5	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	95.7	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 919318)										
WT2310984-003	Anonymous	Chloride	16887-00-6	E235.Cl	97.3 mg/L	100 mg/L	97.3	75.0	125	----
Cyanides (QCLot: 920319)										
WT2310848-001	Anonymous	Cyanide, weak acid dissociable	----	E336	0.127 mg/L	0.125 mg/L	101	75.0	125	----
Dissolved Metals (QCLot: 917817)										
WT2311250-002	GW-12606873-270423-DA-BH12-22	Antimony, dissolved	7440-36-0	E421	0.471 mg/L	0.5 mg/L	94.2	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.511 mg/L	0.5 mg/L	102	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0477 mg/L	0.05 mg/L	95.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.449 mg/L	0.5 mg/L	89.9	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.0468 mg/L	0.05 mg/L	93.5	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.116 mg/L	0.125 mg/L	93.2	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.115 mg/L	0.125 mg/L	91.8	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.112 mg/L	0.125 mg/L	89.4	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.239 mg/L	0.25 mg/L	95.5	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.124 mg/L	0.125 mg/L	99.2	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.227 mg/L	0.25 mg/L	90.8	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.464 mg/L	0.5 mg/L	92.8	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.0427 mg/L	0.05 mg/L	85.4	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.484 mg/L	0.5 mg/L	96.8	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.0025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.242 mg/L	0.25 mg/L	97.0	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.232 mg/L	0.25 mg/L	93.0	70.0	130	----
Dissolved Metals (QCLot: 918531)										
WT2311250-001	GW-12606873-270423-DA-BH02-22	Mercury, dissolved	7439-97-6	E509	0.000102 mg/L	0.0001 mg/L	102	70.0	130	----
Speciated Metals (QCLot: 917553)										
WT2311225-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0396 mg/L	0.04 mg/L	98.9	70.0	130	----
Volatile Organic Compounds (QCLot: 917951)										

Sub-Matrix: **Water**

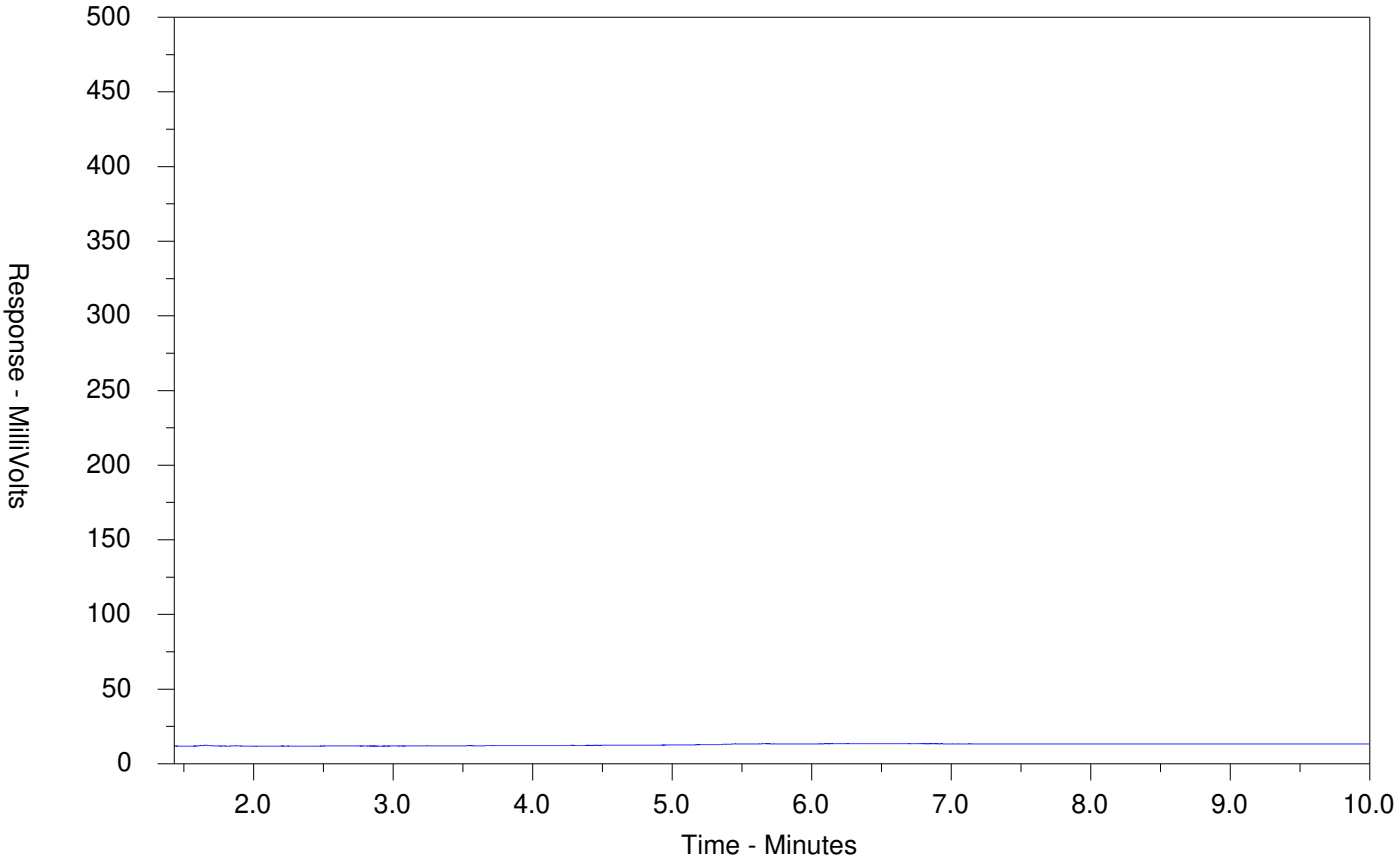
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued										
WT2311250-001	GW-12606873-270423-DA-BH02-22	Acetone	67-64-1	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Benzene	71-43-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Bromoform	75-25-2	E611D	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		Bromomethane	74-83-9	E611D	92.8 µg/L	100 µg/L	92.8	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Chlorobenzene	108-90-7	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Chloroform	67-66-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	61.1 µg/L	100 µg/L	61.1	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	92.4 µg/L	100 µg/L	92.4	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	99.1 µg/L	100 µg/L	99.1	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloromethane	75-09-2	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Ethylbenzene	100-41-4	E611D	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Hexane, n-	110-54-3	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	94 µg/L	100 µg/L	94.4	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Styrene	100-42-5	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	99.3 µg/L	100 µg/L	99.3	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	92.5 µg/L	100 µg/L	92.5	60.0	140	----
		Toluene	108-88-3	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	101 µg/L	100 µg/L	101	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 917951) - continued										
WT2311250-001	GW-12606873-270423-DA-BH02-22	Trichloroethylene	79-01-6	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	87.1 µg/L	100 µg/L	87.1	60.0	140	----
		Vinyl chloride	75-01-4	E611D	82.2 µg/L	100 µg/L	82.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	203 µg/L	200 µg/L	101	60.0	140	----
		Xylene, o-	95-47-6	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
Hydrocarbons (QCLot: 917952)										
WT2311250-001	GW-12606873-270423-DA-BH02-22	F1 (C6-C10)	----	E581.F1-L	1620 µg/L	2000 µg/L	81.2	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-001-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH02-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

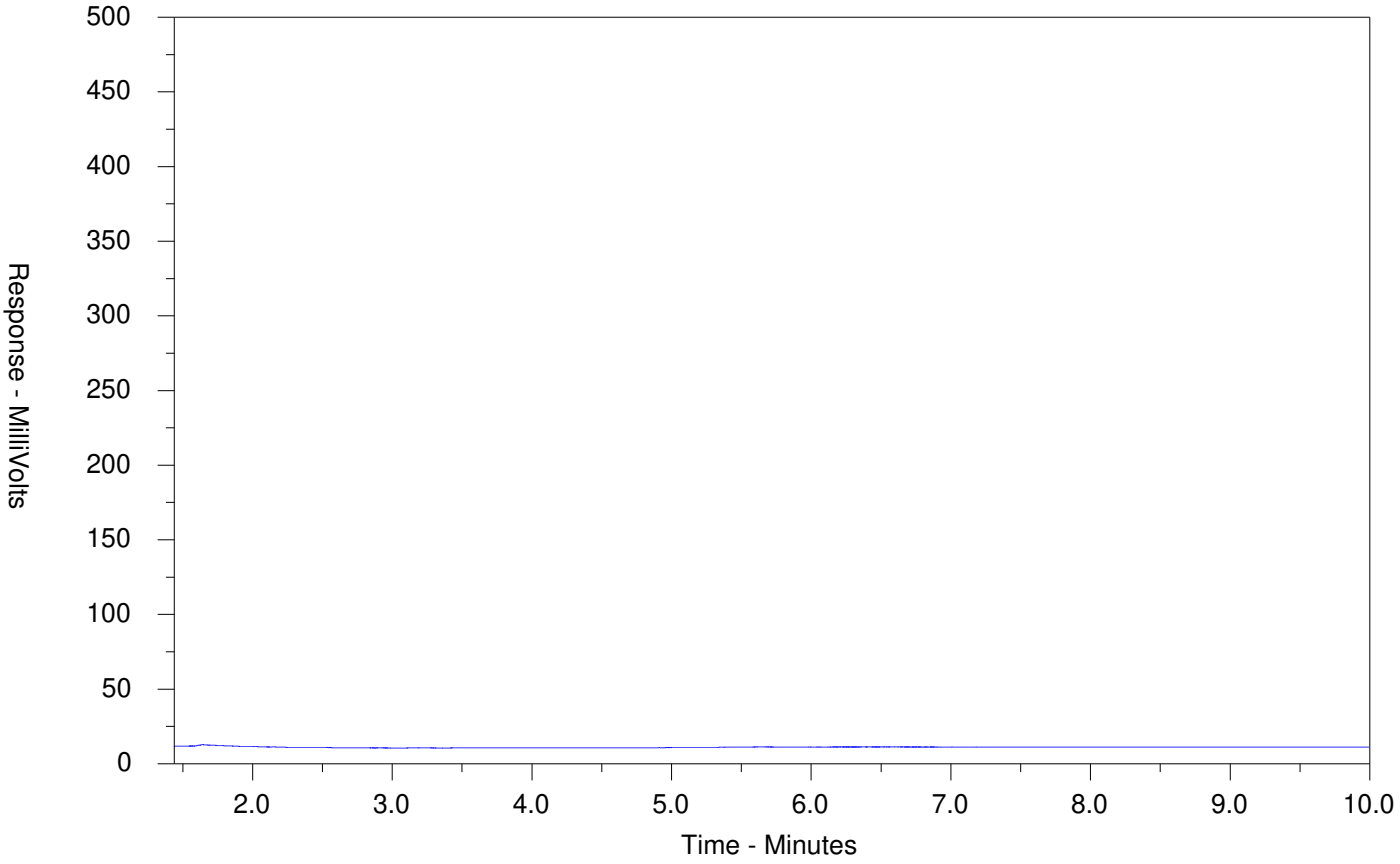
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-002-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH12-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

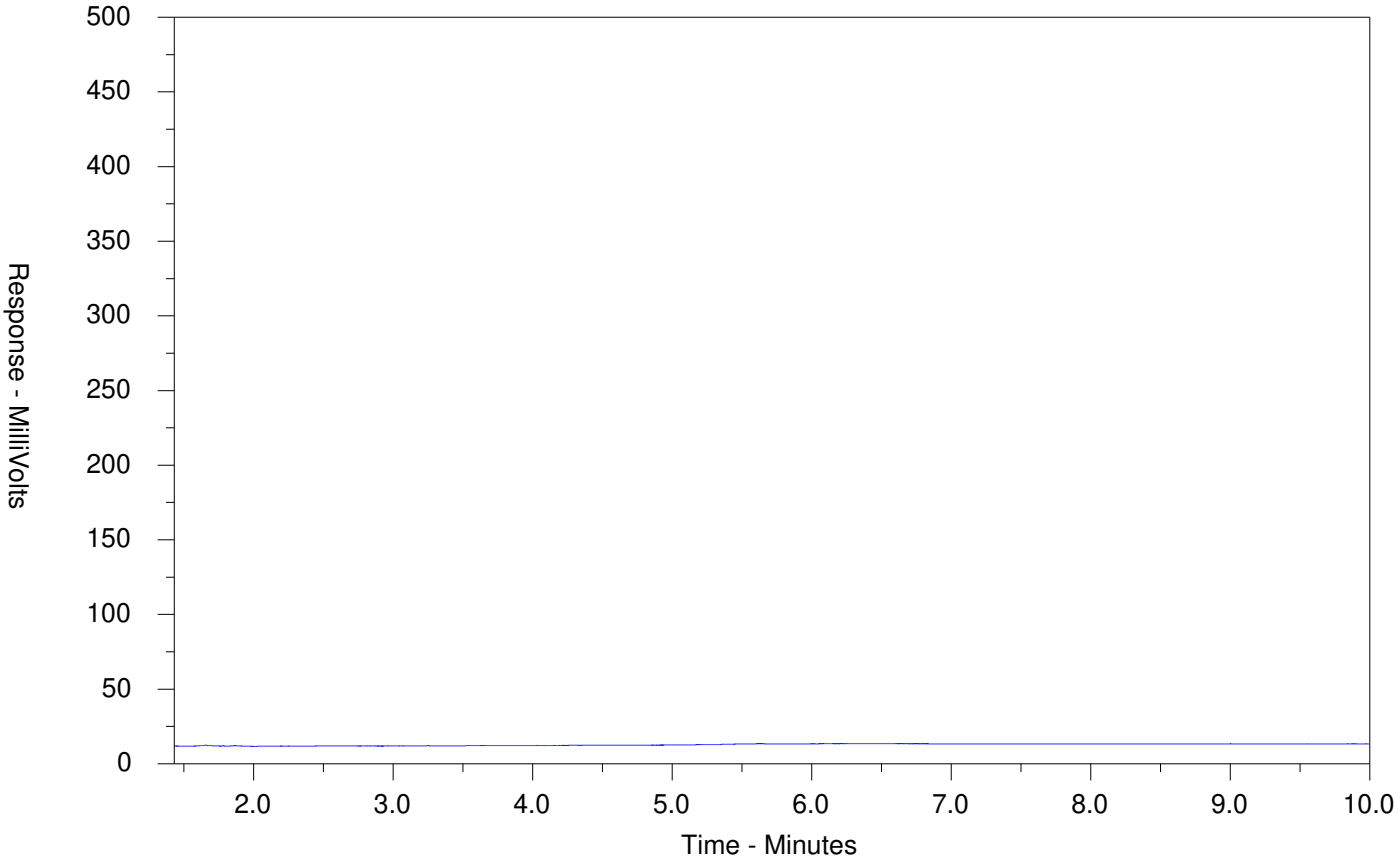
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-003-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH01-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

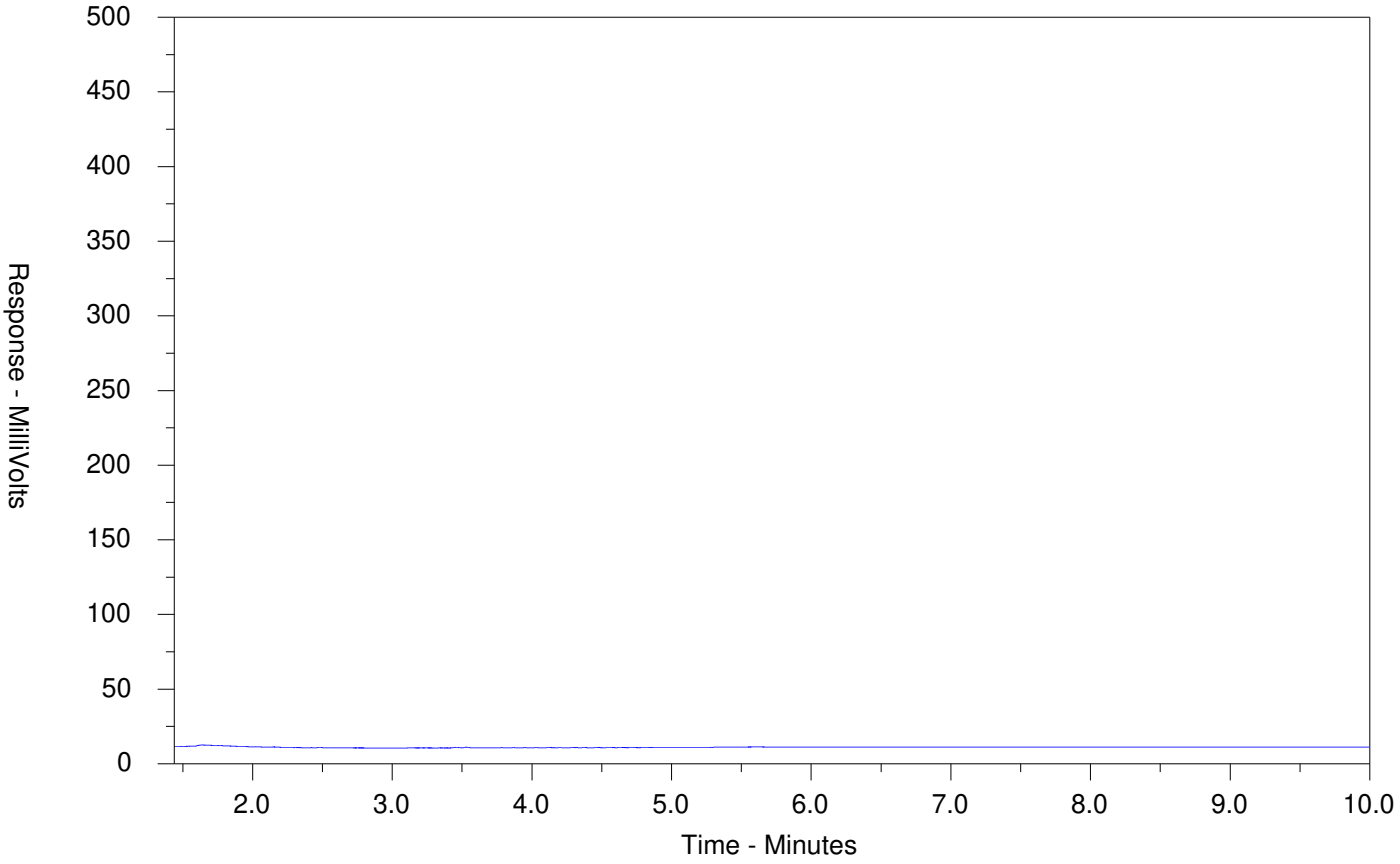
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-004-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH11-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

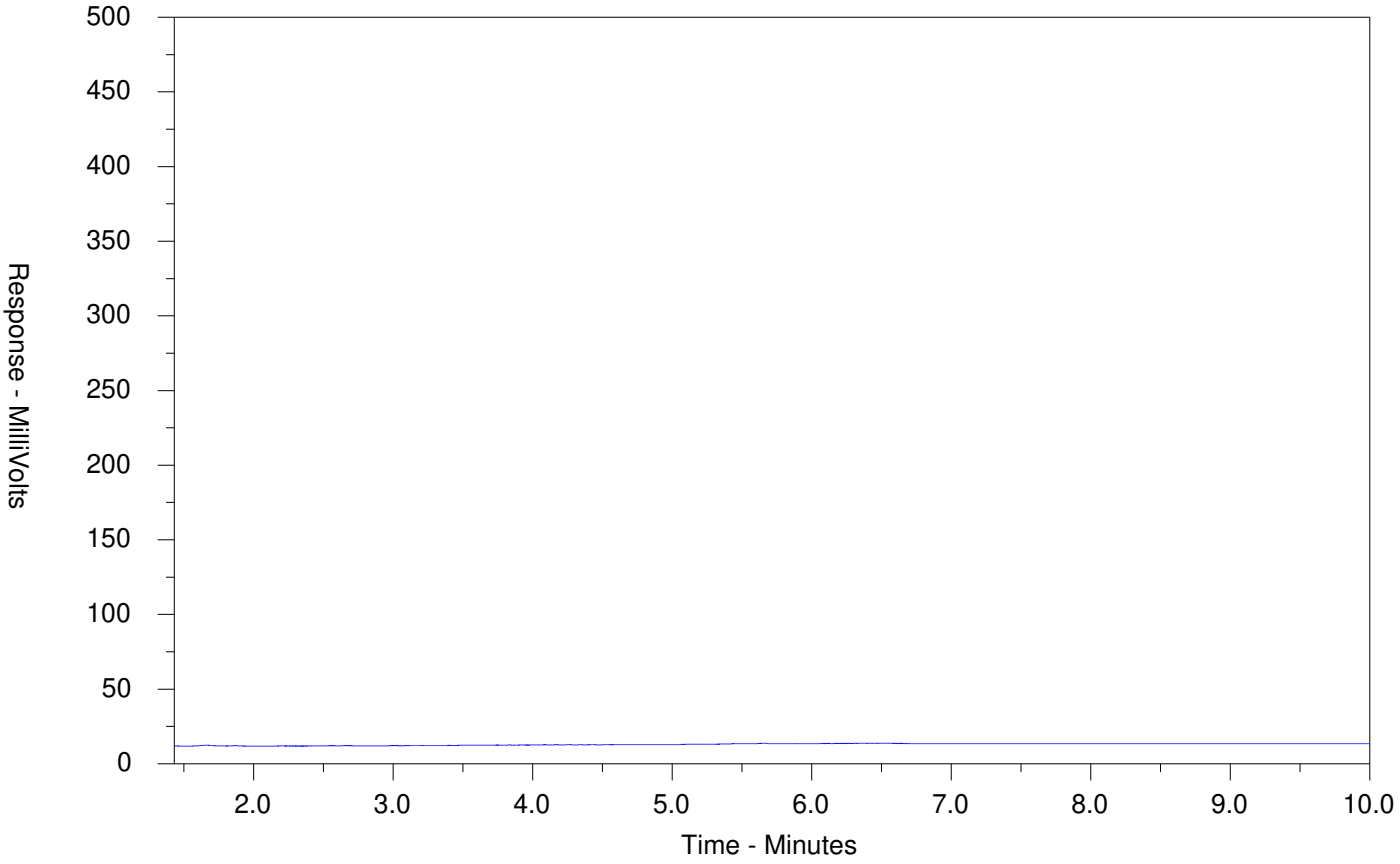
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-005-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH03-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

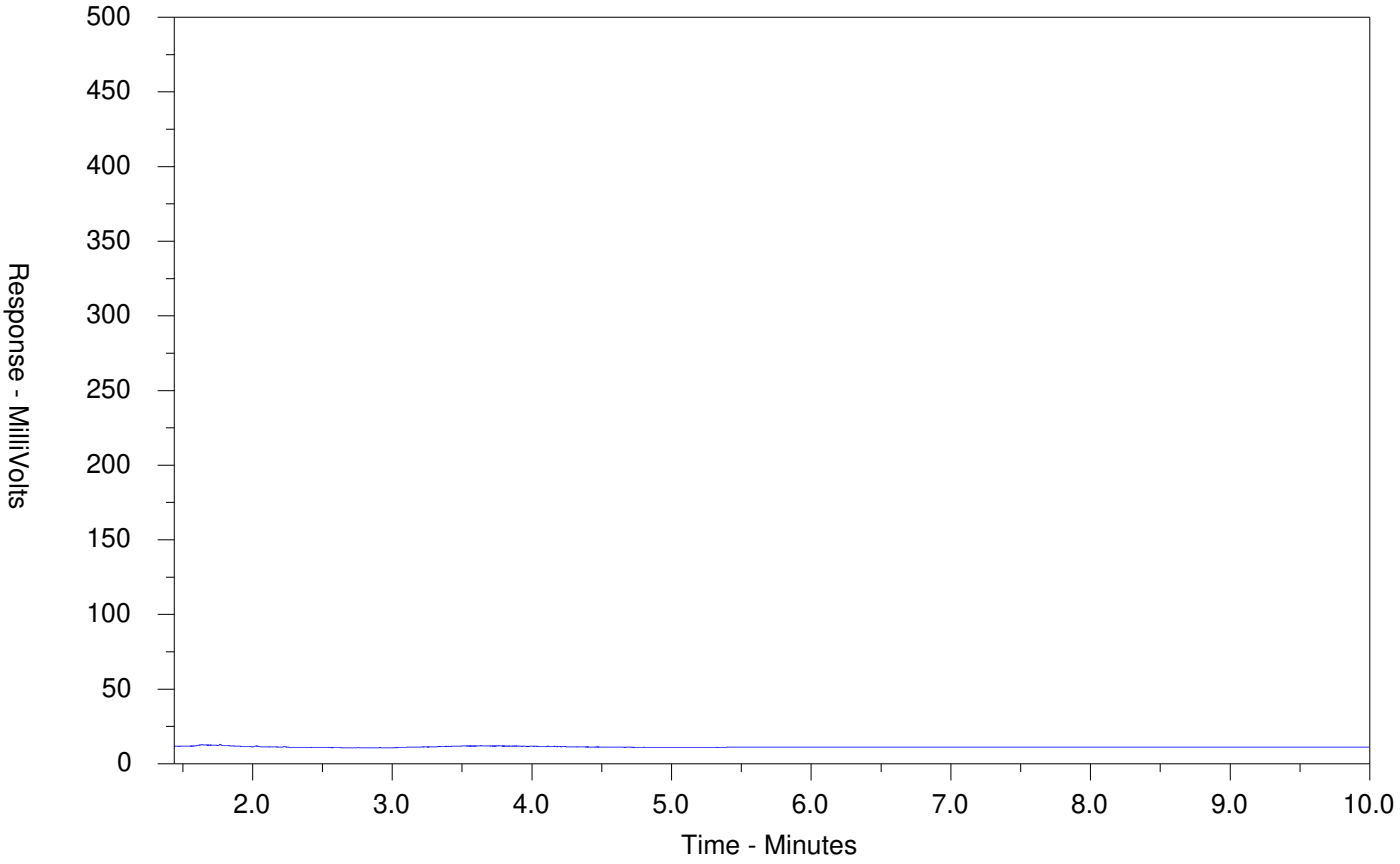
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-006-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH3-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

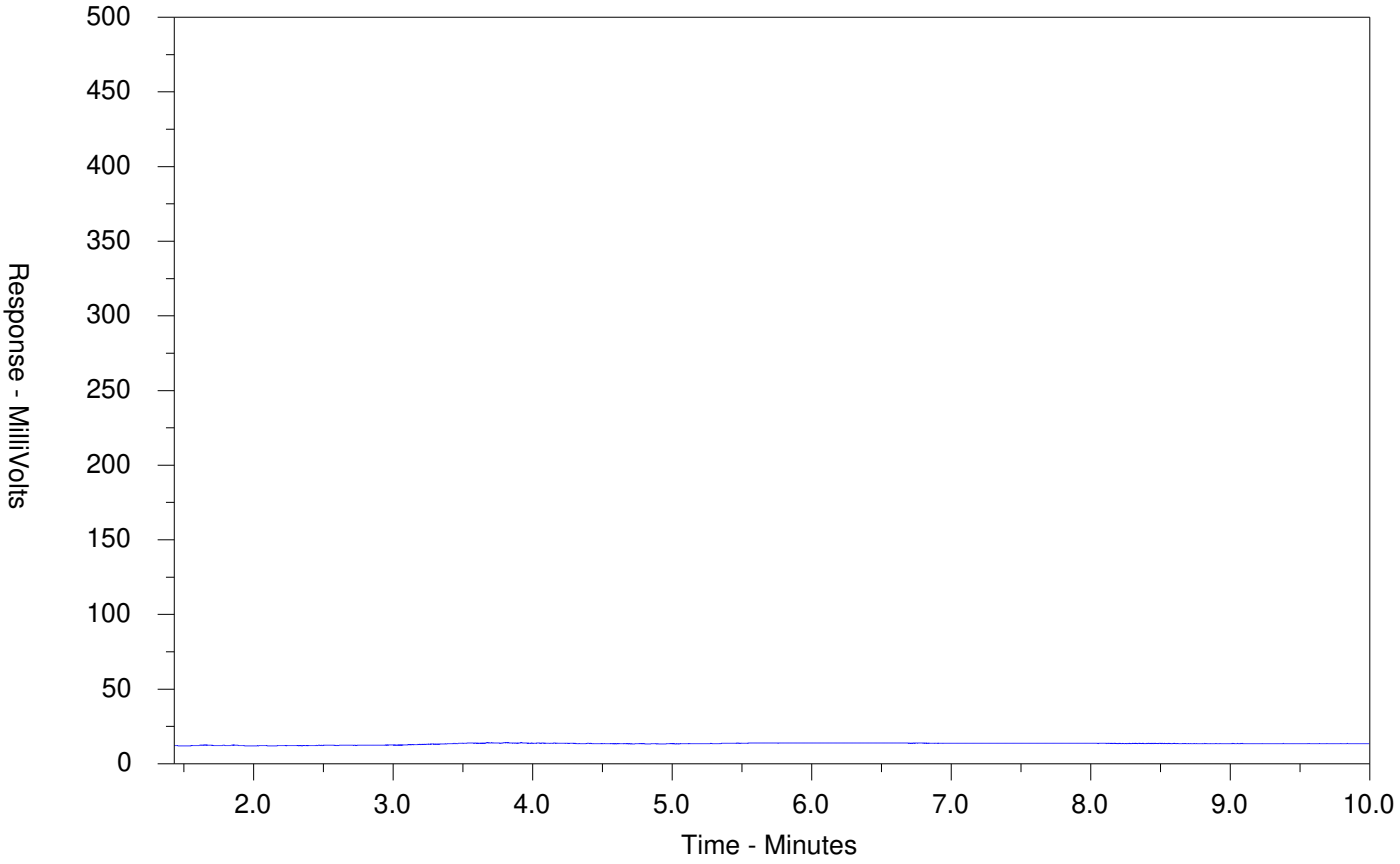
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-007-E601.SG
Client Sample ID: GW-12606873-270423-DA-DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

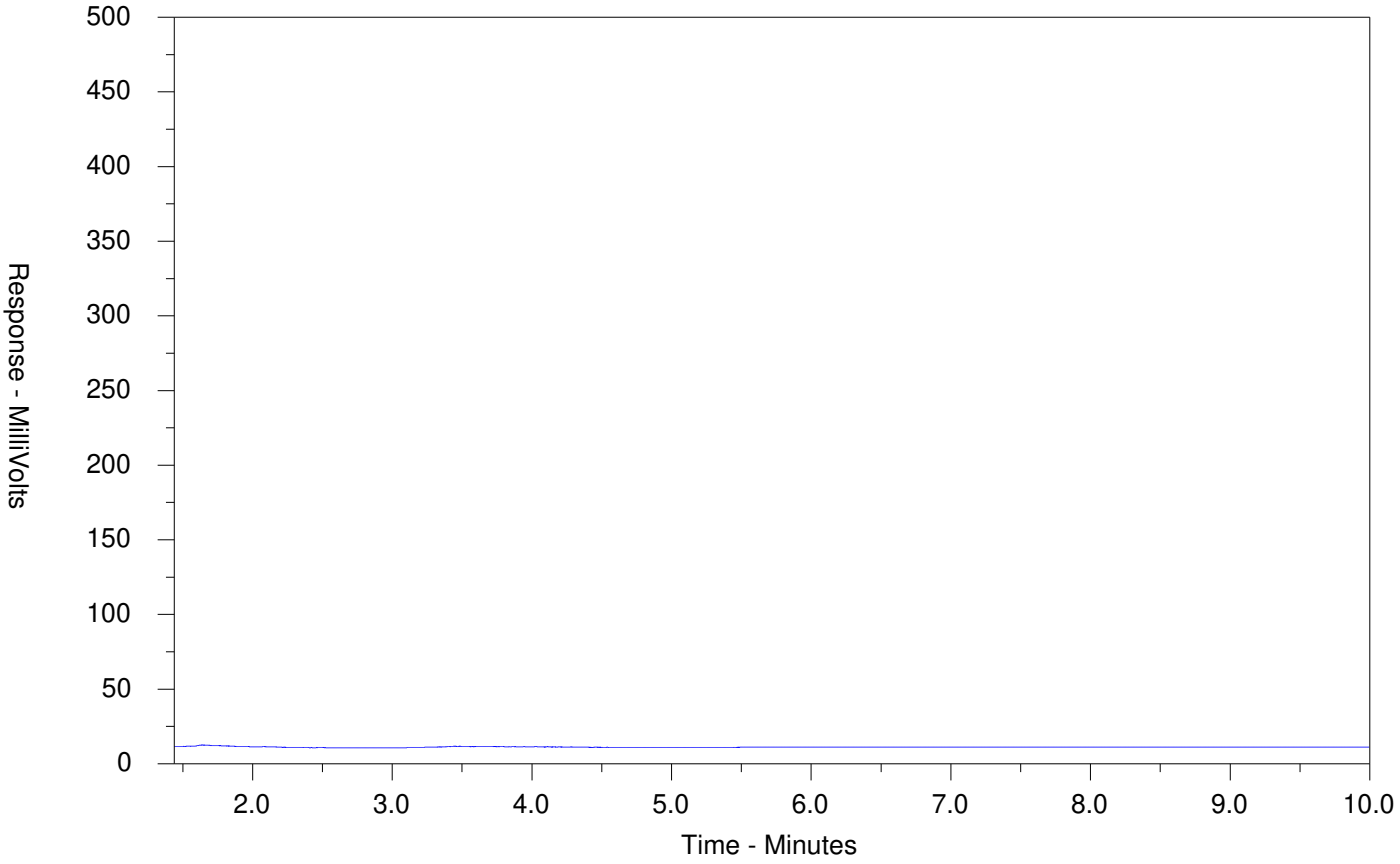
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-008-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

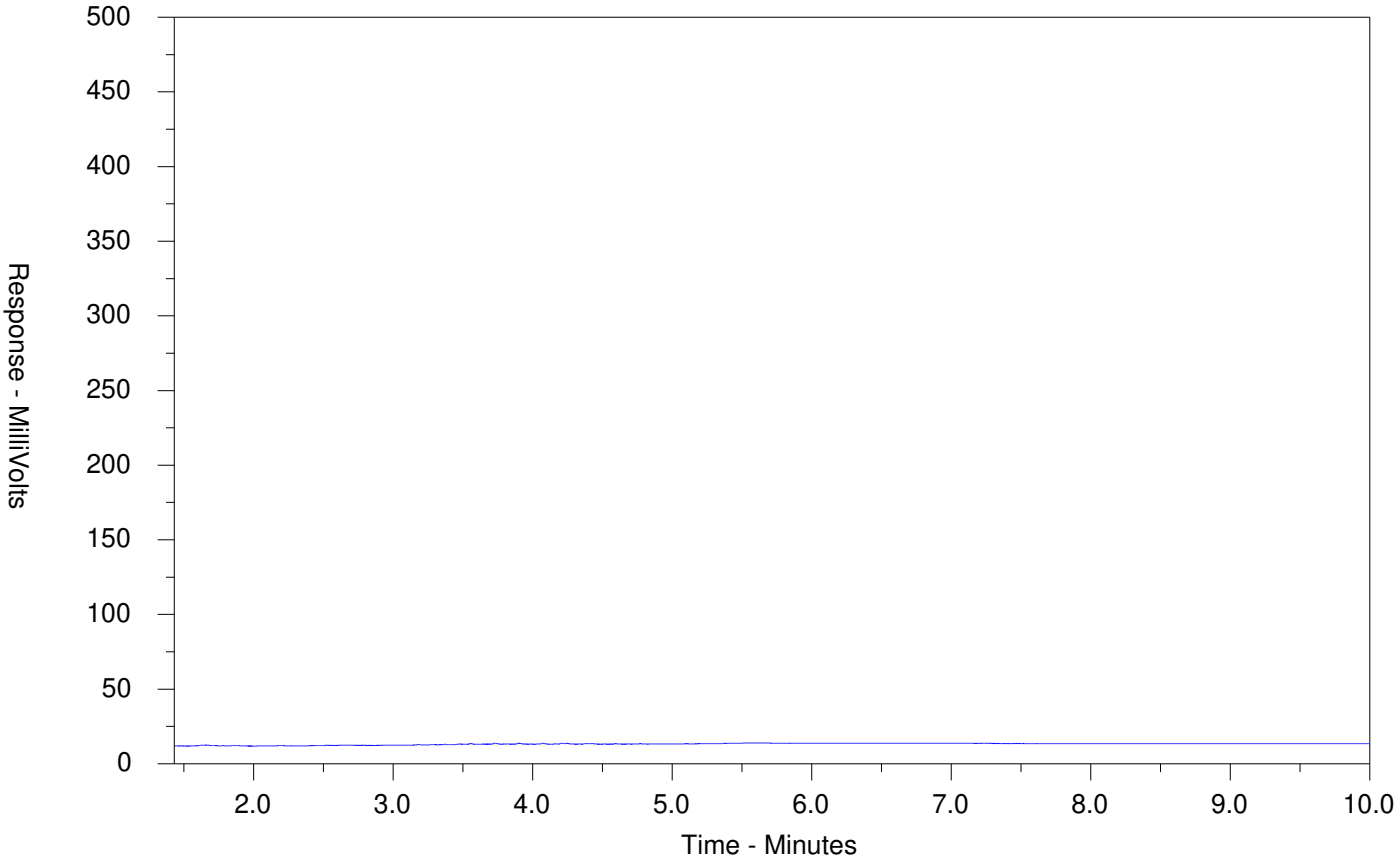
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-009-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH06-22



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

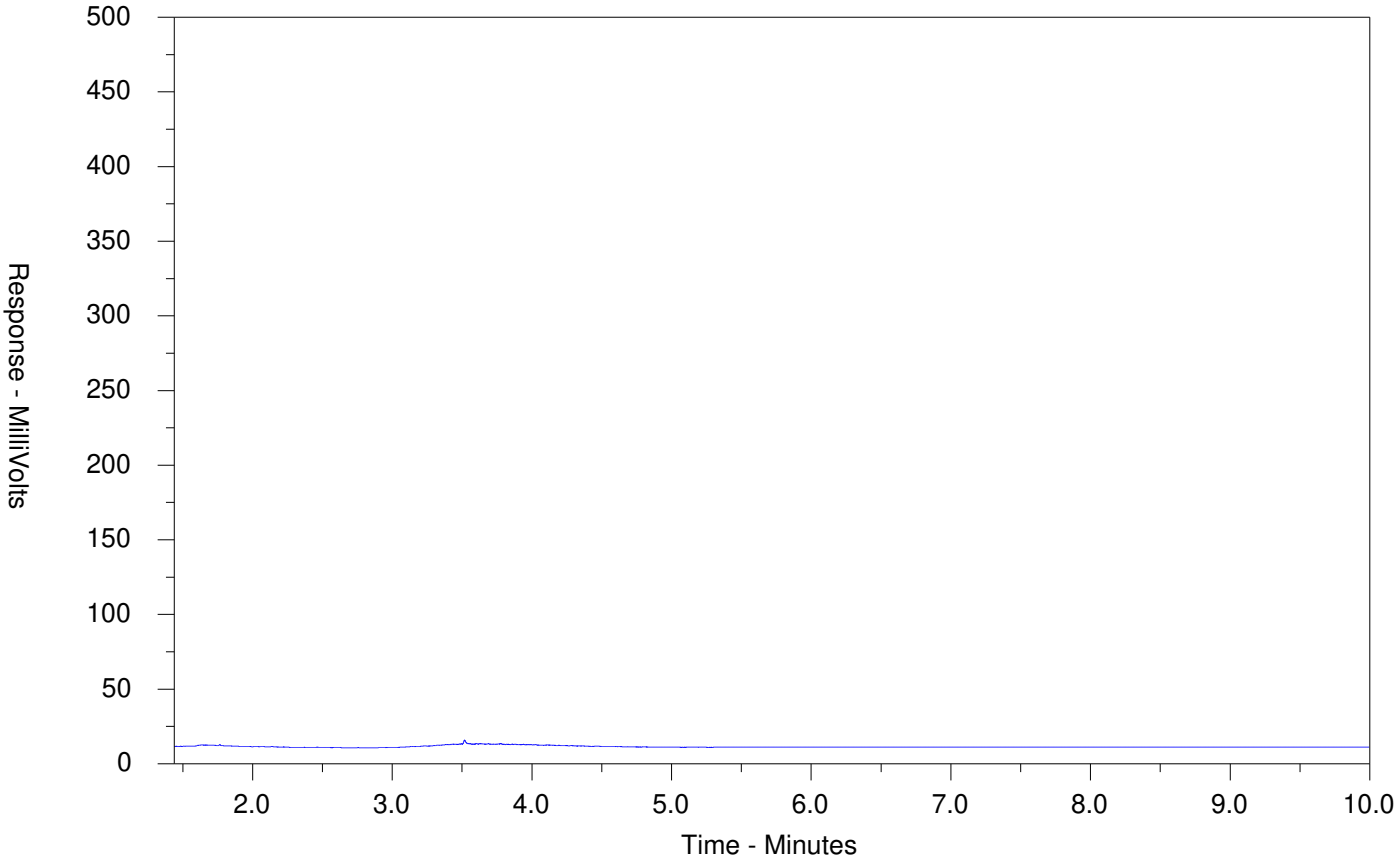
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311250-010-E601.SG
Client Sample ID: GW-12606873-270423-DA-BH6-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

VN-020
OR-528
mm-884
GC-761
SC-299
CN-027

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo
Work Order Reference
WT2311250

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Add fees may apply to rush resuests on weekends, statutory holidays and n routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #: WT2023GHDL1000077
Job #: 12606873-003.02
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): WT2311250 FH

ALS Contact: Rick H Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Metals and Inorganics	VOC/PHC F1-F4 and PAHs	VOC, F1 - Trip Blank	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12606873-270423-DA-BH02-22	27-04-23	09:30	Water	4	X	X				
	GW-12606873-270423-DA-BH12-22		10:20	Water	4	X	X				
	GW-12606873-270423-DA-BH01-22		12:25	Water	4	X	X				
	GW-12606873-270423-DA-BH11-22		13:45	Water	4	X	X				
	GW-12606873-270423-DA-BH03-22		14:40	Water	4	X	X				
	GW-12606873-270423-DA-BH3-23		15:40	Water	4	X	X				
	GW-12606873-270423-DA-DUP		15:55	Water	4	X	X				
	GW-12606873-270423-DA-BH4-23		17:10	Water	4	X	X				
	GW-12606873-270423-DA-BH06-22		18:10	Water	4	X	X				
	GW-12606873-270423-DA-BH6-23		19:00	Water	4	X	X				
	Trip Blank DA			Water	2	X	X				

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?
☐ YES ☑ NO
Are samples for human consumption/ use?
☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

2 coolers submitted, Trip Blank not provided.

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
5.3°C				10.1			

SHIPMENT RELEASE (client use)

Released by: Daithan Ash Date: April 27, 2023 Time: 20:10

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Eric Dobbs Date: 28/04/23 Time: 8:25

FINAL SHIPMENT RECEPTION (lab use only)

Received by: A Date: 1-MAY-23 Time: 9:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Attachment 2

Data Quality Assessment and Verification

Technical Memorandum

May 12, 2023

To	Joseph Drader	**Tel**	514-339-0152
Copy to	Rehoboth Mubedi	**Email**	alexandre.lemire@ghd.com
From	Alexandre Lemire/an/01	**Ref. No.**	12606873-003.02
Subject	Data Quality Assessment and Verification Groundwater Sampling 570 March Road, Kanata First Gulf Corp		

Laboratory:	ALS Canada Ltd.
Lab Job No.:	WT2311250
Date(s) Sampled:	April 2023
Media Sampled:	Groundwater

QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
Holding Times	Analyte specific	☒	☐	☐	☐
Temperature	<10ºC at receipt	☒	☐	☐	☐
Sample Preservation	Required container/preservatives	☒	☐	☐	☐
Field Duplicate (blind)	Within 50%/<1xRL (water)	☒	☐	☐	☐
Field Blank (blind)	Non detect	☐	☐	☐	☒
Trip Blank	Non detect	☐	☐	☐	☒
Lab QA/QC	Within standard recoveries	☒	☐	☐	☐

Conclusion:

Based on the assessment detailed in the foregoing, the data summarized are acceptable without qualification.

Notes:

N/A - Not Applicable

QA/QC - Quality Assurance/Quality Control

Data verification reference documents:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, September 2016.
2. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, September 2016.

3. "British Columbia Environmental Laboratory Manual", Analysis, Reporting & Knowledge Services Knowledge Management Branch Ministry of Environment and Climate Change Strategy Province of British Columbia, April 2020.
4. "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", Laboratory Services Branch, Ministry of the Environment, March 9, 2004, amended as of July 1, 2011.

Regards



Alexandre Lemire
Project chemist

Appendix C

ERIS Database Search Report

DATABASE REPORT

Project Property:	*Nokia Kanata Campus* *520 & 570 March Road* *Ottawa ON K2K 2M5*
Project No:	*12646241*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24070500123*
Requested by:	*GHD Limited*
Date Completed:	*August 9, 2024*

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

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Executive Summary

Property Information:

Project Property:	*Nokia Kanata Campus* *520 & 570 March Road Ottawa ON K2K 2M5*
Project No:	*12646241*

Order Information:

Order No:	*24070500123*
Date Requested:	*July 5, 2024*
Requested by:	*GHD Limited*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	2	2
CA	Certificates of Approval	Y	0	20	20
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	3	3
EBR	Environmental Registry	Y	0	6	6
ECA	Environmental Compliance Approval	Y	0	24	24
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	30	30
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	135	135
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory 1993-2020	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	Y	0	3	3
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
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	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	57	57
SPL	Ontario Spills	Y	0	4	4
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	2	20	22

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
Total:			2	305	307

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		ON **Well ID:** 7411887	SE/0.0	-1.00	64
2	WWIS		ON **Well ID:** 7418702	SSE/0.0	-1.00	64

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	EHS		600 March Road Kanata ON K2K 2T6	NW/19.7	-1.03	65
4	WWIS		lot 9 con 3 ON ***Well ID:*** 1503345	W/50.0	1.97	66
5	ECA	Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	SE/61.8	-1.69	68
5	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/61.8	-1.69	68
5	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/61.8	-1.69	69
5	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/61.8	-1.69	70
5	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/61.8	-1.69	71
5	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/61.8	-1.69	73
5	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/61.8	-1.69	74
6	EHS		510-528 March Road Kanata ON	SE/63.3	-2.00	75
6	EHS		528 March Road Ottawa ON	SE/63.3	-2.00	75
6	EASR	SCI BROCKVILLE CORP.	528 MARCH KANATA ON	SE/63.3	-2.00	75

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
6	EASR	SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	SE/63.3	-2.00	76
7	EHS		535 Legget Drive Kanata ON K2K 3B8	NNE/64.0	-2.27	76
7	CA	Nortel Networks Corporation	535 Legget Drive Ottawa ON	NNE/64.0	-2.27	76
7	CA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON	NNE/64.0	-2.27	76
7	SCT	Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	NNE/64.0	-2.27	77
7	SCT	PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	NNE/64.0	-2.27	77
7	SCT	Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	NNE/64.0	-2.27	77
7	NPRI	KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	NNE/64.0	-2.27	78
7	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NNE/64.0	-2.27	80
7	ECA	Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	NNE/64.0	-2.27	80
7	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NNE/64.0	-2.27	81
7	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NNE/64.0	-2.27	81
7	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NNE/64.0	-2.27	81

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	GEN	Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	NNE/64.0	-2.27	82
7	GEN	Mead Johnson Nutrition (Canada) Co.	900-535 Legget Drive Kanata ON K2K3B8	NNE/64.0	-2.27	82
7	EHS		535 Legget Drive Kanata ON K2K 3B8	NNE/64.0	-2.27	82
7	EHS		PE5413 - 535 Legget Drive Kanata ON K2K 2W2	NNE/64.0	-2.27	83
8	SCT	CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	W/77.7	1.92	83
8	SCT	Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	W/77.7	1.92	83
9	ECA	Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	NNE/79.7	-2.62	83
10	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	SSW/95.1	1.00	84
10	EHS		505 March Road Ottawa ON	SSW/95.1	1.00	84
10	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	SSW/95.1	1.00	84
10	SCT	Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	SSW/95.1	1.00	84
10	SPL	Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	SSW/95.1	1.00	85
11	WWIS		lot 9 con 3 ON	W/96.5	3.00	85

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1503344			
12	SCT	Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	S/100.4	-1.08	88
12	GEN	KRP Properties	40 Hines Road Ottawa ON K2K 2M5	S/100.4	-1.08	88
13	SCT	Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	ENE/115.5	-3.14	89
13	SCT	Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	ENE/115.5	-3.14	89
13	SPL	Kanata Research Park Corporation	515 Legget drive Ottawa ON	ENE/115.5	-3.14	89
13	CA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON	ENE/115.5	-3.14	90
13	SCT	Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	ENE/115.5	-3.14	90
13	HINC		515 LEGGET DRIVE KANATA ON	ENE/115.5	-3.14	90
13	EHS		515 Legget Drive Ottawa ON	ENE/115.5	-3.14	91
13	NPRI	KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	ENE/115.5	-3.14	91
13	EHS		515 Legget Dr Ottawa ON K2K3G4	ENE/115.5	-3.14	93
13	ECA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	ENE/115.5	-3.14	94
13	GEN	Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	ENE/115.5	-3.14	94

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	EHS		80 Hines Road n/a ON K2K 2T8	WSW/123.6	2.72	94
14	GEN	AMCC	80 Hines Rd. Kanata ON K2K 2T8	WSW/123.6	2.72	94
15	SCT	ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	W/129.8	3.04	95
15	SCT	TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	W/129.8	3.04	95
15	SCT	Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	W/129.8	3.04	95
15	SCT	Localcity	555 March Rd Kanata ON K2K 2M5	W/129.8	3.04	96
15	SCT	Local City Inc.	555 March Rd Kanata ON K2K 2M5	W/129.8	3.04	96
15	SCT	ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	W/129.8	3.04	96
15	EHS		555 March Road Ottawa (Kanata) ON	W/129.8	3.04	97
16	BORE		ON	W/131.2	3.04	97
17	SCT	NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	N/134.8	-1.94	98
17	SCT	NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	N/134.8	-1.94	98
17	SCT	March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	N/134.8	-1.94	99

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	N/134.8	-1.94	99
17	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	N/134.8	-1.94	100
17	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	N/134.8	-1.94	100
17	SCT	March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	N/134.8	-1.94	100
17	SCT	March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	N/134.8	-1.94	101
17	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	N/134.8	-1.94	101
17	SCT	Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	N/134.8	-1.94	102
17	GEN	March Networks	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	103
17	CA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON	N/134.8	-1.94	103
17	SCT	Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	N/134.8	-1.94	103
17	SCT	Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	N/134.8	-1.94	104
17	SCT	Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	N/134.8	-1.94	104
17	SCT	Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	N/134.8	-1.94	105

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	N/134.8	-1.94	105
17	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	N/134.8	-1.94	106
17	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	N/134.8	-1.94	107
17	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	N/134.8	-1.94	107
17	NPRI	KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	N/134.8	-1.94	108
17	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	N/134.8	-1.94	111
17	EHS		555 Legget Dr Ottawa ON K2K2X3	N/134.8	-1.94	111
17	EHS		555 Legget Dr Ottawa ON K2K2X3	N/134.8	-1.94	112
17	ECA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	112
17	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	112
17	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	113
17	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	114
17	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	115

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	116
17	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	117
17	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	N/134.8	-1.94	118
17	EHS		555 Legget Drive Kanata ON K2K 3B8	N/134.8	-1.94	119
17	EHS		555 Legget Drive Kanata ON K2K 3B8	N/134.8	-1.94	119
18	WWIS		lot 9 con 3 ON ***Well ID:*** 1510215	WNW/136.0	2.25	119
19	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	NNW/141.1	-1.98	122
19	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	NNW/141.1	-1.98	123
19	SCT	Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	NNW/141.1	-1.98	123
19	GEN	ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	NNW/141.1	-1.98	123
19	SCT	Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	NNW/141.1	-1.98	124
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NNW/141.1	-1.98	124
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NNW/141.1	-1.98	125

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NNW/141.1	-1.98	125
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NNW/141.1	-1.98	126
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON	NNW/141.1	-1.98	126
19	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	127
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	128
19	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	128
19	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	129
19	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	130
19	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	131
19	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NNW/141.1	-1.98	132
19	WWIS		600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444461	NNW/141.1	-1.98	133
19	WWIS		600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444459	NNW/141.1	-1.98	136
19	WWIS		600 March Road lot 8 con 4 Kanata ON	NNW/141.1	-1.98	139

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7444460			
20	GEN	MILLER'S QUALITY DRY CLEANERS	591 MARCH ROAD KANATA ON K2K 2M5	WNW/146.7	2.25	142
20	EHS		591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	142
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	143
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	143
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	144
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	144
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON	WNW/146.7	2.25	144
20	EHS		591 March Rd Ottawa ON K2K2M5	WNW/146.7	2.25	145
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	145
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	146
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	146
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	146
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	147

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	147
20	GEN	March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	WNW/146.7	2.25	148
21	ECA	D.I.R. Investments Inc.	Ottawa ON K0A 1A0	W/148.6	3.86	148
22	SCT	EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	SW/161.0	1.00	149
22	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW/161.0	1.00	149
22	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW/161.0	1.00	149
22	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW/161.0	1.00	150
22	SCT	DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	SW/161.0	1.00	150
22	SCT	WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	SW/161.0	1.00	150
22	EBR	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	SW/161.0	1.00	151
22	SCT	Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	SW/161.0	1.00	151
22	SCT	OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	SW/161.0	1.00	151
22	EBR	Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA	SW/161.0	1.00	151

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			ON			
22	CA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	SW/161.0	1.00	152
22	CA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	SW/161.0	1.00	152
22	SCT	Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	SW/161.0	1.00	153
22	GEN	GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	SW/161.0	1.00	153
22	ECA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	SW/161.0	1.00	153
22	ECA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	SW/161.0	1.00	154
23	CA	WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	WSW/172.5	4.00	154
23	SCT	Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	WSW/172.5	4.00	154
23	SCT	Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	WSW/172.5	4.00	154
23	GEN	Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	WSW/172.5	4.00	155
23	SCT	Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	WSW/172.5	4.00	155
23	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON	WSW/172.5	4.00	156

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
23	SCT	Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	WSW/172.5	4.00	156
23	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW/172.5	4.00	157
23	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW/172.5	4.00	157
23	GEN	Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	WSW/172.5	4.00	158
23	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	WSW/172.5	4.00	158
23	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW/172.5	4.00	159
23	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	WSW/172.5	4.00	160
23	GEN	ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	WSW/172.5	4.00	160
23	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	WSW/172.5	4.00	161
24	SCT	TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	WSW/172.5	2.97	161
24	GEN	Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	WSW/172.5	2.97	162
24	SCT	Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	WSW/172.5	2.97	162
24	GEN	Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	WSW/172.5	2.97	162

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
24	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW/172.5	2.97	163
24	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW/172.5	2.97	163
24	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW/172.5	2.97	164
25	BORE		ON	SSE/173.3	-0.97	164
26	WWIS		lot 8 con 3 ON ***Well ID:*** 1503343	SSE/173.4	-0.97	165
27	WWIS		3001 SOLANDT RD. KANATA ON ***Well ID:*** 7296271	ESE/173.7	-2.31	168
28	WWIS		ON ***Well ID:*** 7393876	E/178.1	-4.00	176
29	CA	MINTO DEVELOPMENTS INC.	LEGGET DR/TERRY FOX DR/SOLANDT KANATA CITY ON	NNW/183.6	-1.94	177
30	EHS		555, 591, 595, and 603 March Road Kanata ON K2K 2M5	W/190.3	2.88	177
31	EHS		70 Hines Rd. Kanata ON K2K 2M5	SW/193.1	1.95	177
31	CA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON	SW/193.1	1.95	178
31	ECA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	SW/193.1	1.95	178
31	SPL	Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	SW/193.1	1.95	178

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405268	WNW/198.5	2.03	179
33	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408599	WNW/199.8	1.97	182
34	SCT	SR TELECOM	425 LEGGET DR KANATA ON K2K 2W2	E/200.0	-2.89	186
34	EHS		425 Legget Dr Kanata ON K2K 2W2	E/200.0	-2.89	186
34	GEN	SR TELECOM INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	E/200.0	-2.89	186
34	GEN	C-MAC KANATA INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	E/200.0	-2.89	186
34	GEN	C-MAC KANATA INC.	425 LEGETT DRIVE KANATA ON K2K 2W2	E/200.0	-2.89	187
34	GEN	C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY	425 LEGETT DRIVE KANATA ON	E/200.0	-2.89	187
34	SCT	Solectron EMS Canada	425 Legget Dr Kanata ON K2K 2W2	E/200.0	-2.89	188
34	EHS		425 Legget Drive Ottawa ON	E/200.0	-2.89	189
34	EASR	AVAYA CANADA CORP	425 LEGGET DRIVE OTTAWA ON K2K 2W2	E/200.0	-2.89	189
34	ECA	425 Legget Drive Property GP Inc.	425 Legget Dr Ottawa ON	E/200.0	-2.89	189
34	EHS		425 Legget Drive Kanata ON K2K 3C9	E/200.0	-2.89	189

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
35	WWIS		591 MARCH ROAD lot 9 con 3 KANATA ON ***Well ID:*** 7151742	W/201.8	3.94	190
36	EHS		495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K	SSW/202.1	0.31	193
37	EHS		370-450 Huntmar Drive Ottawa ON	E/210.0	-2.92	193
38	EHS		525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	NE/213.9	-5.97	194
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	194
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	195
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	195
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	NE/213.9	-5.97	196
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	NE/213.9	-5.97	196
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	196
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON	NE/213.9	-5.97	197
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON	NE/213.9	-5.97	197
38	ECA	Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	NE/213.9	-5.97	198

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
38	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/213.9	-5.97	199
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	199
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	199
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	200
38	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/213.9	-5.97	201
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	201
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	202
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	202
38	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	203
38	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/213.9	-5.97	203
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	204
38	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	204
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	205

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
38	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/213.9	-5.97	206
38	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/213.9	-5.97	206
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	206
38	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	207
38	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	208
38	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/213.9	-5.97	208
38	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/213.9	-5.97	209
38	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/213.9	-5.97	209
38	ECA	Wesley Clover International Corporation	525 Legget Dr 359 Terry Fox Drive Ottawa ON K2K 0G7	NE/213.9	-5.97	209
38	SPL		525 LeGget Drive, Ottawa K2K2W2 OTTAWA ON	NE/213.9	-5.97	210
39	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405255	WNW/214.1	3.03	211
40	CA	LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	SE/217.5	-2.03	214
40	CA	LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	SE/217.5	-2.03	214

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
40	SCT	LOCKHEED MARTIN CANADA INC	3001 SOLANDT RD KANATA ON K2K 2M8	SE/217.5	-2.03	215
40	SCT	Lockheed Martin Canada Inc.	3001 Solandt Rd Kanata ON K2K 2M8	SE/217.5	-2.03	215
40	CA		3001 Solandt Road Kanata ON K2K 2M8	SE/217.5	-2.03	215
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/217.5	-2.03	215
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/217.5	-2.03	216
40	EBR	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON K2K 2M8	SE/217.5	-2.03	217
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/217.5	-2.03	218
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/217.5	-2.03	218
40	GEN	MORGUARD INVESTMENTS LTD.	3001 SOLANDT STREET KANATA ON	SE/217.5	-2.03	219
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/217.5	-2.03	219
40	EBR	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	SE/217.5	-2.03	220
40	ECA	Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON	SE/217.5	-2.03	221
40	EHS		3001 Solandt Road Kanata ON	SE/217.5	-2.03	221

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON	SE/217.5	-2.03	221
40	ECA	Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	SE/217.5	-2.03	222
40	ECA	Lockheed Martin Canada Inc.	3001 Solandt Road Kanata ON K2K 2M8	SE/217.5	-2.03	222
40	ECA	Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	SE/217.5	-2.03	223
40	GEN	LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	SE/217.5	-2.03	223
40	GEN	Morguard Investments	3001 Solandt Rd Kanata ON K2K 3M8	SE/217.5	-2.03	224
41	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408598	WNW/218.0	3.03	224
42	CA	COLONNADE DEVELOPMENT INC.	60 HINES RD., PH. 1, SWM KANATA ON K2K 2M5	SW/223.2	2.03	227
42	CA	COLONNADE DEVELOPMENT INC.	SWM-60 HINES RD.PH.2 KANATA ON K2K 2M5	SW/223.2	2.03	228
43	CA		495 March Road Kanata ON K2K 3G1	SSE/227.1	-1.08	228
43	EBR	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa Ontario K2K 3G1 Ottawa ON	SSE/227.1	-1.08	228
43	GEN	PICARRO CANADA INC.	495 MARCH RD SUITE 200 OTTAWA ON K2K 3G1	SSE/227.1	-1.08	229
43	GEN	PICARRO CANADA INC.	495 MARCH RD SUITE 200 OTTAWA ON K2K 3G1	SSE/227.1	-1.08	229

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	SCT	Dinmar Consulting Inc.	495 March Rd Suite 400 Kanata ON K2K 3G1	SSE/227.1	-1.08	229
43	SCT	Halogen Software	495 March Rd Suite 500 Ottawa ON K2K 3G1	SSE/227.1	-1.08	230
43	GEN	NEWPORT INSTRUMENTS CANADA CORP	495 MARCH RD SUITE 200 OTTAWA ON	SSE/227.1	-1.08	230
43	CA	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON	SSE/227.1	-1.08	230
43	SCT	OneChip Photonics Inc.	495 March Rd Suite 200 Kanata ON K2K 3G1	SSE/227.1	-1.08	231
43	SCT	Halogen Software	495 March Rd Suite 500 Kanata ON K2K 3G1	SSE/227.1	-1.08	231
43	GEN	NEWPORT INSTRUMENTS CANADA CORP	495 MARCH RD SUITE 200 OTTAWA ON	SSE/227.1	-1.08	231
43	GEN	OneChip Photonics	495 March Rd. Suite 200 Ottawa ON K2K 3G1	SSE/227.1	-1.08	232
43	GEN	OneChip Photonics	495 March Rd. Suite 200 Ottawa ON K2K 3G1	SSE/227.1	-1.08	232
43	GEN	OneChip Photonics	495 March Rd. Suite 200 Ottawa ON K2K 3G1	SSE/227.1	-1.08	232
43	EHS		495 March Rd Ottawa ON K2K3G1	SSE/227.1	-1.08	233
43	GEN	OneChip Photonics	495 March Rd. Suite 150 Ottawa ON	SSE/227.1	-1.08	233
43	ECA	Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON K2K 3G1	SSE/227.1	-1.08	233

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	ECA	E-Cruiter.com Inc.	495 March Road Kanata ON K2K 3G1	SSE/227.1	-1.08	234
43	GEN	OneChip Photonics	495 March Rd. Suite 150 Ottawa ON K2K 3G1	SSE/227.1	-1.08	234
44	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408597	WNW/232.8	3.00	235
45	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408602	WNW/233.0	1.92	238
46	EHS		359 Terry Fox Drive Ottawa ON Kanata ON K2K 2E7	NNE/239.3	-6.02	241
47	CA	NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7	NNE/239.7	-6.02	241
47	SCT	ELCOMBE SYSTEMS LIMITED	359 TERRY FOX DR KANATA ON K2K 2E7	NNE/239.7	-6.02	241
47	CA		359 Terry Fox Drive Kanata ON K2K 2E7	NNE/239.7	-6.02	242
47	GEN	NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA ON K2K 2E7	NNE/239.7	-6.02	242
47	GEN	NEWBRIDGE NETWORKS CORPORATION 28-523	359 TERRY FOX DRIVE KANATA ON K2K 2E7	NNE/239.7	-6.02	242
47	EHS		359 Terry Fox Drive Ottawa ON	NNE/239.7	-6.02	243
47	EBR	Smart Technologies Inc.	359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	NNE/239.7	-6.02	243
47	EHS		359 Terry Fox Drive Ottawa ON	NNE/239.7	-6.02	244

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	GEN	Smart Technologies Inc	359 Terry Fox Drive - North Kanata ON	NNE/239.7	-6.02	244
47	CA	Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON	NNE/239.7	-6.02	244
47	CA	Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON	NNE/239.7	-6.02	245
47	SCT	Sciemetric Instruments Inc.	359 Terry Fox Dr Kanata ON K2K 2E7	NNE/239.7	-6.02	245
47	SCT	Pleora Technologies Inc.	359 Terry Fox Dr Unit 230 Kanata ON K2K 2E7	NNE/239.7	-6.02	245
47	ECA	Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON K2K 2E7	NNE/239.7	-6.02	246
47	ECA	Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON K2K 2X3	NNE/239.7	-6.02	246
47	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NNE/239.7	-6.02	246
47	GEN	Public Health Agency of Canada - Kanata	359 Terry Fox Drive Kanata ON K2K2E7	NNE/239.7	-6.02	247
47	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NNE/239.7	-6.02	247
47	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NNE/239.7	-6.02	248
47	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NNE/239.7	-6.02	248
47	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NNE/239.7	-6.02	249

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	GEN	Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	NNE/239.7	-6.02	249
47	GEN	Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	NNE/239.7	-6.02	250
48	SCT	INSTANTEL INC.	362 TERRY FOX DR KANATA ON K2K 2P5	N/245.3	-4.00	251
48	SCT	Coyle Publishing Inc.	362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	N/245.3	-4.00	251
49	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408603	WNW/247.7	3.00	251
50	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408601	WNW/249.3	1.69	254
51	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405269	WNW/249.5	1.69	257
52	WWIS		603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405254	WNW/249.6	3.00	261

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	131.2	16
	ON	173.3	25

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 20 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Kanata Research Park Corporation	535 Legget Drive Ottawa ON	64.0	7
Nortel Networks Corporation	535 Legget Drive Ottawa ON	64.0	7
Kanata Research Park Corporation	515 Legget Drive Ottawa ON	115.5	13
Kanata Research Park Corporation	555 Legget Drive Ottawa ON	134.8	17
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	161.0	22
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	161.0	22

Site	Address	Distance (m)	Map Key
WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	172.5	23
MINTO DEVELOPMENTS INC.	LEGGET DR/TERRY FOX DR/SOLANDT KANATA CITY ON	183.6	29
2117547 Ontario Inc.	70 Hines Rd Ottawa ON	193.1	31
LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	217.5	40
LOCKHEED CANADA INC.	3001 SOLANDT ROAD KANATA CITY ON K2K 2M8	217.5	40
	3001 Solandt Road Kanata ON K2K 2M8	217.5	40
COLONNADE DEVELOPMENT INC.	60 HINES RD., PH. 1, SWM KANATA ON K2K 2M5	223.2	42
COLONNADE DEVELOPMENT INC.	SWM-60 HINES RD.PH.2 KANATA ON K2K 2M5	223.2	42
	495 March Road Kanata ON K2K 3G1	227.1	43
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON	227.1	43
NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7	239.7	47

Site	Address	Distance (m)	Map Key
	359 Terry Fox Drive Kanata ON K2K 2E7	239.7	47
Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON	239.7	47
Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON	239.7	47

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Jun 30, 2024 has found that there are 3 EASR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SCI BROCKVILLE CORP.	528 MARCH KANATA ON	63.3	6
SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	63.3	6
AVAYA CANADA CORP	425 LEGGET DRIVE OTTAWA ON K2K 2W2	200.0	34

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Jun 30, 2024 has found that there are 6 EBR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	161.0	22
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	161.0	22

Site	Address	Distance (m)	Map Key
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	217.5	40
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON K2K 2M8	217.5	40
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa Ontario K2K 3G1 Ottawa ON	227.1	43
Smart Technologies Inc.	359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON	239.7	47

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jun 30, 2024 has found that there are 24 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	61.8	5
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	64.0	7
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	64.0	7
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	64.0	7
Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	64.0	7
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	64.0	7

Site	Address	Distance (m)	Map Key
Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	79.7	9
Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	115.5	13
Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
D.I.R. Investments Inc.	Ottawa ON K0A 1A0	148.6	21
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	161.0	22
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	161.0	22
2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	193.1	31
425 Legget Drive Property GP Inc.	425 Legget Dr Ottawa ON	200.0	34
Wesley Clover International Corporation	525 Legget Dr 359 Terry Fox Drive Ottawa ON K2K 0G7	213.9	38
Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	213.9	38
Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	217.5	40

Site	Address	Distance (m)	Map Key
Lockheed Martin Canada Inc.	3001 Solandt Road Kanata ON K2K 2M8	217.5	40
Lockheed Martin Canada Inc.	3001 Solandt Rd Ottawa ON K2K 2M8	217.5	40
Lockheed Martin Canada Inc.	3001 Solandt Road Ottawa ON	217.5	40
E-Cruiter.com Inc.	495 March Road Kanata ON K2K 3G1	227.1	43
Picarro Canada Inc.	495 March Road, Suite 100 Ottawa ON K2K 3G1	227.1	43
Kanata Research Park Corporation	359 Terry Fox Drive Ottawa ON K2K 2X3	239.7	47
Smart Technologies Inc.	359 Terry Fox Drive Ottawa ON K2K 2E7	239.7	47

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2024 has found that there are 30 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	600 March Road Kanata ON K2K 2T6	19.7	3
	528 March Road Ottawa ON	63.3	6
	510-528 March Road Kanata ON	63.3	6

Site	Address	Distance (m)	Map Key
	535 Legget Drive Kanata ON K2K 3B8	64.0	7
	535 Legget Drive Kanata ON K2K 3B8	64.0	7
	PE5413 - 535 Legget Drive Kanata ON K2K 2W2	64.0	7
	505 March Road Ottawa ON	95.1	10
	515 Legget Dr Ottawa ON K2K3G4	115.5	13
	515 Legget Drive Ottawa ON	115.5	13
	80 Hines Road n/a ON K2K 2T8	123.6	14
	555 March Road Ottawa (Kanata) ON	129.8	15
	555 Legget Dr Ottawa ON K2K2X3	134.8	17
	555 Legget Dr Ottawa ON K2K2X3	134.8	17
	555 Legget Drive Kanata ON K2K 3B8	134.8	17

Site	Address	Distance (m)	Map Key
	555 Legget Drive Kanata ON K2K 3B8	134.8	17
	591 March Rd Ottawa ON K2K2M5	146.7	20
	591 March Road Kanata ON K2K 2M5	146.7	20
	555, 591, 595, and 603 March Road Kanata ON K2K 2M5	190.3	30
	70 Hines Rd. Kanata ON K2K 2M5	193.1	31
	425 Legget Drive Kanata ON K2K 3C9	200.0	34
	425 Legget Drive Ottawa ON	200.0	34
	425 Legget Dr Kanata ON K2K 2W2	200.0	34
	495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K	202.1	36
	370-450 Huntmar Drive Ottawa ON	210.0	37
	525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	213.9	38
	3001 Solandt Road Kanata ON	217.5	40

Site	Address	Distance (m)	Map Key
	495 March Rd Ottawa ON K2K3G1	227.1	43
	359 Terry Fox Drive Ottawa ON Kanata ON K2K 2E7	239.3	46
	359 Terry Fox Drive Ottawa ON	239.7	47
	359 Terry Fox Drive Ottawa ON	239.7	47

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 135 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	61.8	5
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	61.8	5
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	61.8	5
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	61.8	5
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	61.8	5

Site	Address	Distance (m)	Map Key
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	61.8	5
Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	64.0	7
Mead Johnson Nutrition (Canada) Co.	900-535 Legget Drive Kanata ON K2K3B8	64.0	7
KRP Properties	40 Hines Road Ottawa ON K2K 2M5	100.4	12
Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	115.5	13
AMCC	80 Hines Rd. Kanata ON K2K 2T8	123.6	14
TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	134.8	17
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	134.8	17
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	134.8	17
KRP Management Services Inc.	555 Legget Drive Ottawa ON	134.8	17
March Networks	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
KRP Management Services Inc.	555 Legget Drive Ottawa ON	134.8	17

Site	Address	Distance (m)	Map Key
KRP Management Services Inc.	555 Legget Drive Ottawa ON	134.8	17
KRP Management Services Inc.	555 Legget Drive Ottawa ON	134.8	17
KRP Management Services Inc.	555 Legget Drive Ottawa ON	134.8	17
KRP Management Services Inc.	555 Legget Drive Ottawa ON	134.8	17
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	134.8	17
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	134.8	17

Site	Address	Distance (m)	Map Key
ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON	141.1	19
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	141.1	19
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	141.1	19
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	141.1	19
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	141.1	19
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	141.1	19

Site	Address	Distance (m)	Map Key
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	141.1	19
MILLER'S QUALITY DRY CLEANERS	591 MARCH ROAD KANATA ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20

Site	Address	Distance (m)	Map Key
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
March Veterinary Professional Corporation	591 March Road Kanata ON K2K 2M5	146.7	20
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	161.0	22
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	161.0	22
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	161.0	22
GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	161.0	22
Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	172.5	23
954050 ONTARIO INC.	88 HINES RD KANATA ON	172.5	23
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	172.5	23
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	172.5	23
Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	172.5	23

Site	Address	Distance (m)	Map Key
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	172.5	23
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	172.5	23
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	172.5	23
ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	172.5	23
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	172.5	23
Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	172.5	24
Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	172.5	24
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	172.5	24
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	172.5	24
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	172.5	24
SR TELECOM INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	200.0	34

Site	Address	Distance (m)	Map Key
C-MAC KANATA INC.	425 LEGGET DRIVE KANATA ON K2K 2W2	200.0	34
C-MAC KANATA INC.	425 LEGETT DRIVE KANATA ON K2K 2W2	200.0	34
C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY	425 LEGETT DRIVE KANATA ON	200.0	34
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	213.9	38
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON	213.9	38
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	213.9	38

Site	Address	Distance (m)	Map Key
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38

Site	Address	Distance (m)	Map Key
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	213.9	38
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	213.9	38
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	213.9	38
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	213.9	38
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	217.5	40
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	217.5	40
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	217.5	40

Site	Address	Distance (m)	Map Key
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	217.5	40
MORGUARD INVESTMENTS LTD.	3001 SOLANDT STREET KANATA ON	217.5	40
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	217.5	40
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON	217.5	40
LOCKHEED MARTIN CANADA	3001 SOLANDT ROAD KANATA ON K2K 2M8	217.5	40
Morguard Investments	3001 Solandt Rd Kanata ON K2K 3M8	217.5	40
PICARRO CANADA INC.	495 MARCH RD SUITE 200 OTTAWA ON K2K 3G1	227.1	43
PICARRO CANADA INC.	495 MARCH RD SUITE 200 OTTAWA ON K2K 3G1	227.1	43
NEWPORT INSTRUMENTS CANADA CORP	495 MARCH RD SUITE 200 OTTAWA ON	227.1	43
NEWPORT INSTRUMENTS CANADA CORP	495 MARCH RD SUITE 200 OTTAWA ON	227.1	43
OneChip Photonics	495 March Rd. Suite 200 Ottawa ON K2K 3G1	227.1	43

Site	Address	Distance (m)	Map Key
OneChip Photonics	495 March Rd. Suite 200 Ottawa ON K2K 3G1	227.1	43
OneChip Photonics	495 March Rd. Suite 200 Ottawa ON K2K 3G1	227.1	43
OneChip Photonics	495 March Rd. Suite 150 Ottawa ON	227.1	43
OneChip Photonics	495 March Rd. Suite 150 Ottawa ON K2K 3G1	227.1	43
NEWBRIDGE NETWORKS CORPORATION	359 TERRY FOX DRIVE KANATA ON K2K 2E7	239.7	47
NEWBRIDGE NETWORKS CORPORATION 28-523	359 TERRY FOX DRIVE KANATA ON K2K 2E7	239.7	47
Smart Technologies Inc	359 Terry Fox Drive - North Kanata ON	239.7	47
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	239.7	47
Public Health Agency of Canada - Kanata	359 Terry Fox Drive Kanata ON K2K2E7	239.7	47
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	239.7	47
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	239.7	47
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	239.7	47

Site	Address	Distance (m)	Map Key
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	239.7	47
Electronic Distributors International Inc.	359 Terry Fox Drive Suite 110 Ottawa ON K2K 2E7	239.7	47
Public Health Agency of Canada - Kanata NESS	359 Terry Fox Drive Kanata ON K2K2E7	239.7	47

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	515 LEGGET DRIVE KANATA ON	115.5	13

NPRI - National Pollutant Release Inventory - Historic

A search of the NPRI database, dated 1993-May 2017 has found that there are 3 NPRI site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	64.0	7
KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	115.5	13
KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	134.8	17

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 57 SCT site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	64.0	7
PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	64.0	7
Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	64.0	7
CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	77.7	8
Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	77.7	8
Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	95.1	10
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	95.1	10
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	95.1	10
Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	100.4	12
Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	115.5	13
Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	115.5	13

Site	Address	Distance (m)	Map Key
Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	115.5	13
ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	129.8	15
TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	129.8	15
Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	129.8	15
Localcity	555 March Rd Kanata ON K2K 2M5	129.8	15
Local City Inc.	555 March Rd Kanata ON K2K 2M5	129.8	15
ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	129.8	15
NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	134.8	17
NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	134.8	17
March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	134.8	17
March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	134.8	17

Site	Address	Distance (m)	Map Key
March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	134.8	17
Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	134.8	17
Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	134.8	17
Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	134.8	17
Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	134.8	17
Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	134.8	17
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	141.1	19
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	141.1	19
Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	141.1	19
Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	141.1	19
EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	161.0	22
DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	161.0	22

Site	Address	Distance (m)	Map Key
WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	161.0	22
Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	161.0	22
OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	161.0	22
Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	161.0	22
Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	172.5	23
Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	172.5	23
Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	172.5	23
Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	172.5	23
TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	172.5	24
Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	172.5	24
SR TELECOM	425 LEGGET DR KANATA ON K2K 2W2	200.0	34

Site	Address	Distance (m)	Map Key
Solectron EMS Canada	425 Legget Dr Kanata ON K2K 2W2	200.0	34
LOCKHEED MARTIN CANADA INC	3001 SOLANDT RD KANATA ON K2K 2M8	217.5	40
Lockheed Martin Canada Inc.	3001 Solandt Rd Kanata ON K2K 2M8	217.5	40
Dinmar Consulting Inc.	495 March Rd Suite 400 Kanata ON K2K 3G1	227.1	43
Halogen Software	495 March Rd Suite 500 Ottawa ON K2K 3G1	227.1	43
OneChip Photonics Inc.	495 March Rd Suite 200 Kanata ON K2K 3G1	227.1	43
Halogen Software	495 March Rd Suite 500 Kanata ON K2K 3G1	227.1	43
ELCOMBE SYSTEMS LIMITED	359 TERRY FOX DR KANATA ON K2K 2E7	239.7	47
Sciemetric Instruments Inc.	359 Terry Fox Dr Kanata ON K2K 2E7	239.7	47
Pleora Technologies Inc.	359 Terry Fox Dr Unit 230 Kanata ON K2K 2E7	239.7	47
INSTANTEL INC.	362 TERRY FOX DR KANATA ON K2K 2P5	245.3	48
Coyle Publishing Inc.	362 Terry Fox Dr Suite 220 Kanata ON K2K 2P5	245.3	48

Site	Address	Distance (m)	Map Key

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; see description has found that there are 4 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	95.1	10
Kanata Research Park Corporation	515 Legget drive Ottawa ON	115.5	13
Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	193.1	31
	525 LeGget Drive, Ottawa K2K2W2 OTTAWA ON	213.9	38

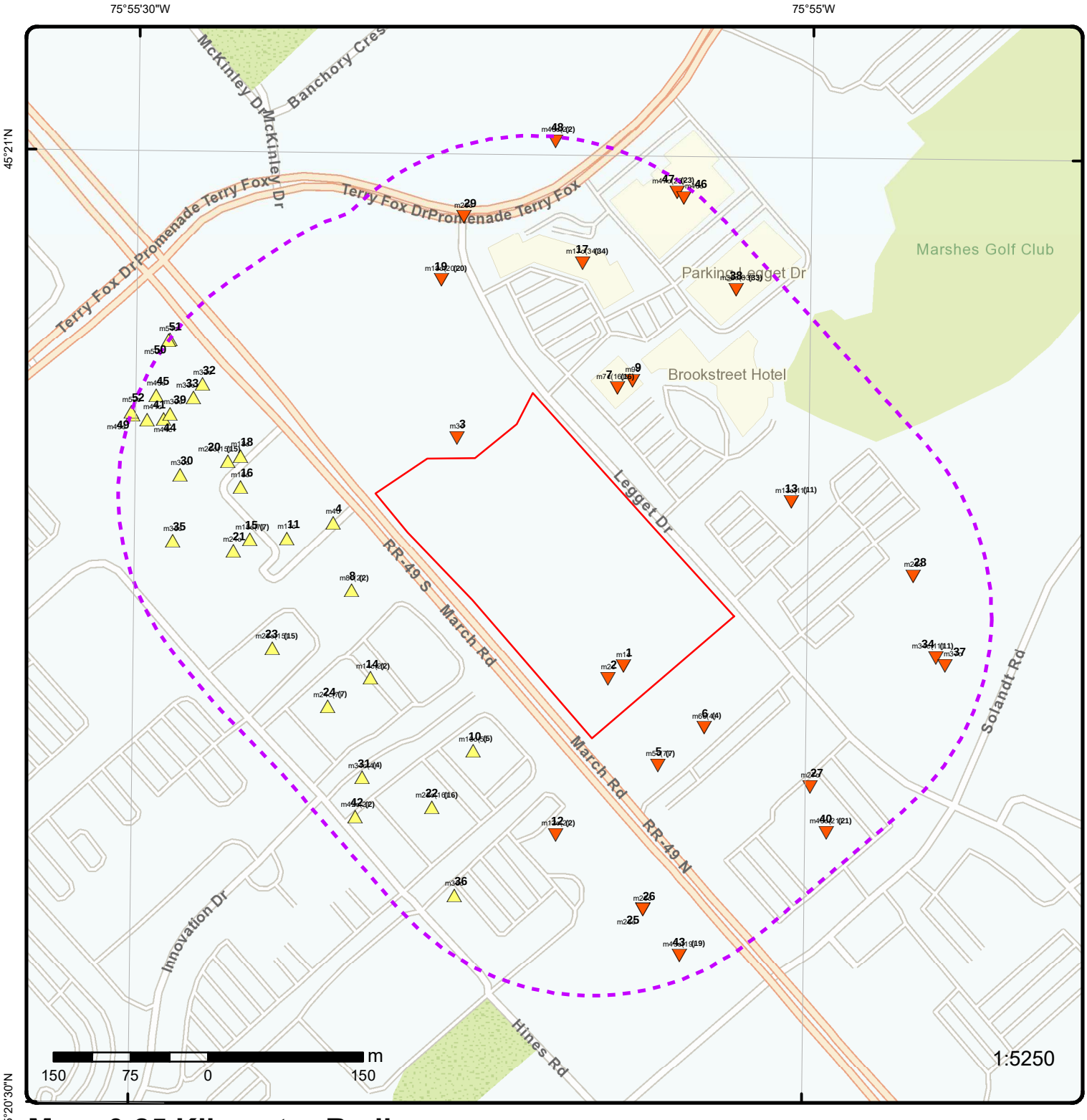
WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31 2023 has found that there are 22 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 7411887	0.0	1
	ON ***Well ID:*** 7418702	0.0	2
	lot 9 con 3 ON ***Well ID:*** 1503345	50.0	4
	lot 9 con 3 ON	96.5	11

Site	Address	Distance (m)	Map Key
	Well ID: 1503344		
	lot 9 con 3 ON ***Well ID:*** 1510215	136.0	18
	600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444459	141.1	19
	600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444460	141.1	19
	600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444461	141.1	19
	lot 8 con 3 ON ***Well ID:*** 1503343	173.4	26
	3001 SOLANDT RD. KANATA ON ***Well ID:*** 7296271	173.7	27
	ON ***Well ID:*** 7393876	178.1	28
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405268	198.5	32
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408599	199.8	33
	591 MARCH ROAD lot 9 con 3 KANATA ON ***Well ID:*** 7151742	201.8	35
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405255	214.1	39

Site	Address	Distance (m)	Map Key
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408598	218.0	41
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408597	232.8	44
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408602	233.0	45
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408603	247.7	49
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7408601	249.3	50
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405269	249.5	51
	603 March Road lot 9 con 3 Kanata ON ***Well ID:*** 7405254	249.6	52



Map: 0.25 Kilometer Radius

Order Number: 24070500123

Address: 520 & 570 March Road, Ottawa, ON

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

Source: © 2021 ESRI StreetMap Premium.

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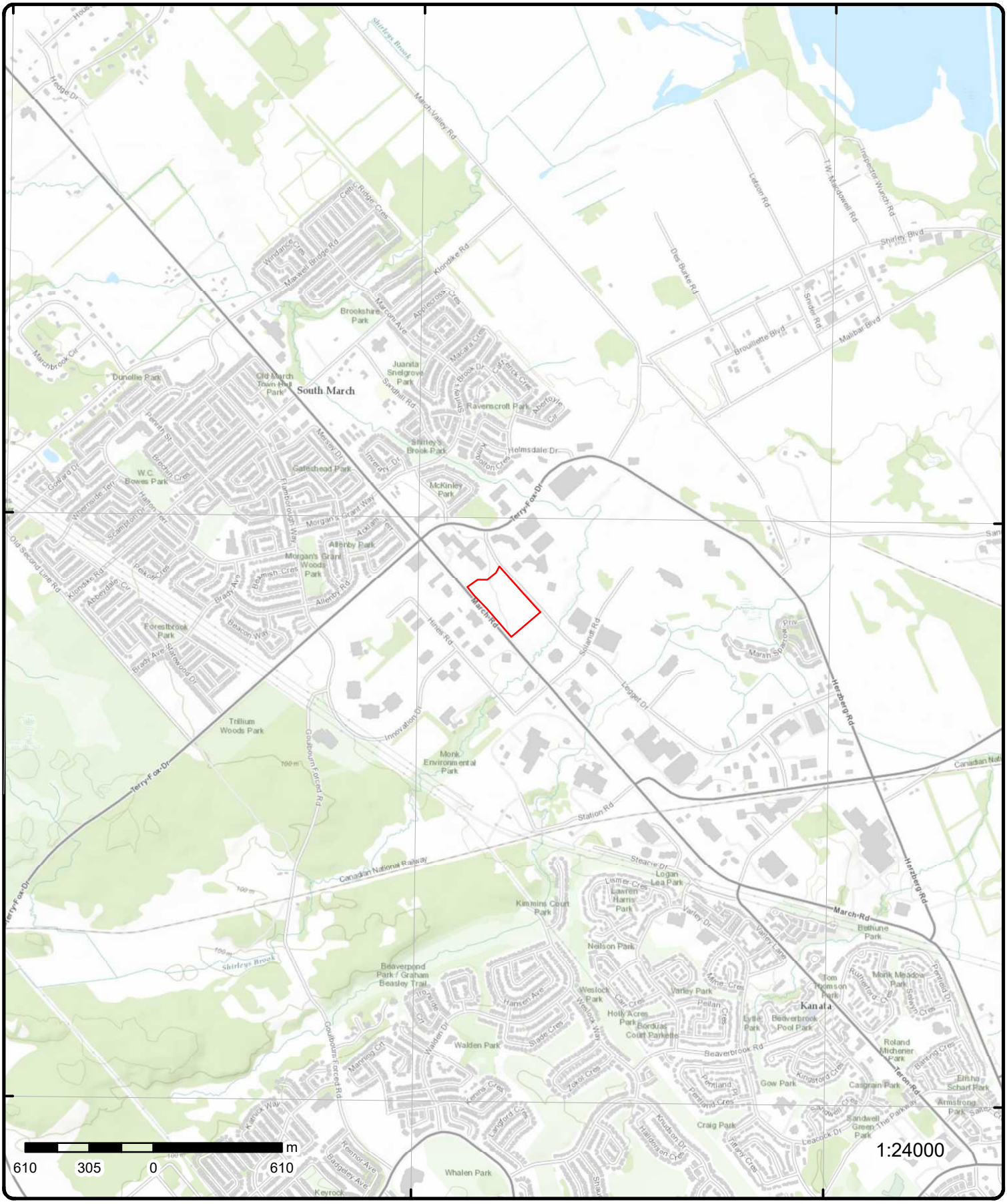
Aerial **Year: 2023**

Order Number: 24070500123

Address: 520 & 570 March Road, Ottawa, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 520 & 570 March Road, ON

Source: ESRI World Topographic Map

Order Number: 24070500123

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	SE/0.0	80.9 / -1.00	ON	WWIS

Well ID:	7411887	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	03/01/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C47441	**Contractor:**	7675
Tag:	A311034	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008964982	**Tag No:**	A311034
Depth M:		**Contractor:**	7675
Year Completed:	2022	**Latitude:**	45.3455458657277
Well Completed Dt:	02/02/2022	**Longitude:**	-75.9189164913814
Audit No:	C47441	**Y:**	45.34554585923208
Path:		**X:**	-75.9189163294058

Bore Hole Information

Bore Hole ID:	1008964982	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	428012.00
Code OB Desc:		**North83:**	5021748.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	02/02/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	DB
2	1 of 1	SSE/0.0	80.9 / -1.00	WWIS

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

Well ID:	7418702	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	06/01/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C48396	**Contractor:**	7675
Tag:	A331679	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1009052413	**Tag No:**	A331679
Depth M:		**Contractor:**	7675
Year Completed:	2022	**Latitude:**	45.3454363225597
Well Completed Dt:	05/12/2022	**Longitude:**	-75.9191061915986
Audit No:	C48396	**Y:**	45.345436316525074
Path:		**X:**	-75.91910603018418

Bore Hole Information

Bore Hole ID:	1009052413	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427997.00
Code OB Desc:		**North83:**	5021736.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	05/12/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	NW/19.7	80.8 / -1.03	600 March Road Kanata ON K2K 2T6	EHS

Order No:	22010600440	**Nearest Intersection:**	
Status:	C	**Municipality:**	Kanata
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	18-JAN-22	**Search Radius (km):**	.25
Date Received:	06-JAN-22	**X:**	-75.92100813
Previous Site Name:		**Y:**	45.34752135
Lot/Building Size:			
Additional Info Ordered:	City Directory; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 1	W/50.0	83.8 / 1.97	lot 9 con 3 ON	WWIS

Well ID:	1503345	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	12/01/1952
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1802
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503345.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/20/1952
Year Completed:	1952
Depth (m):	12.192
Latitude:	45.3467679412808
Longitude:	-75.9225283767252
X:	-75.92252821581005
Y:	45.3467679342807
Path:	150\1503345.pdf

Bore Hole Information

Bore Hole ID:	10025388	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427730.60
Code OB Desc:		**North83:**	5021887.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	11/20/1952	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Location Method Desc:	Original Pre1985 UTM Rel Code 9: unknown UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996631
Layer:	2

Color:
General Color:
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996630
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503345
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573958
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043528
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 9.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043529
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE

Depth From:	
Depth To:	40.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991503345
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456239
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	38.0
Water Found Depth UOM:	ft

---

5 ***1 of 7*** ***SE/61.8*** ***80.2 / -1.69*** ***Legget Drive Development Inc.***
500 March Rd
Ottawa ON K1P 6E2 ***ECA***

Approval No:	0623-9SKM34	***MOE District:***	
Approval Date:	2015-01-13	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name:	Legget Drive Development Inc.
Address:	500 March Rd
Full Address:	
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7712-9RMMU6-14.pdf
PDF Site Location:	

---

5 ***2 of 7*** ***SE/61.8*** ***80.2 / -1.69*** ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 ***GEN***

Generator No:	ON5466737
SIC Code:	334410
SIC Description:	SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING
Approval Years:	2016
PO Box No:	

Country:	Canada
Status:	
Co Admin:	Emma Mason
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	613-886-6192 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	262
Waste Class Name:	DETERGENTS/SOAPS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS
Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	232
Waste Class Name:	POLYMERIC RESINS
Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	3 of 7	SE/61.8	80.2 / -1.69	Sanmina Corporation 500 March Road Ottawa ON K2K 0J9	GEN

Generator No:	ON5466737
SIC Code:	334410
SIC Description:	SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Jessica Major
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	613-886-6328 Ext.
Contaminated Facility:	No

MHSW Facility: No

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

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

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

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5 | ***4 of 7*** | ***SE/61.8*** | ***80.2 / -1.69*** | ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 | ***GEN***

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112 C

Waste Class Name:	Acid solutions - containing heavy metals
Waste Class:	121 C
Waste Class Name:	Alkaline slutions - containing heavy metals
Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints
Waste Class:	146 R
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	146 T
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 C
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 T
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	232 I
Waste Class Name:	Polymeric resins
Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	253 L
Waste Class Name:	Emulsified oils
Waste Class:	262 T
Waste Class Name:	Detergents and soaps
Waste Class:	263 C
Waste Class Name:	Misc. waste organic chemicals
Waste Class:	263 I
Waste Class Name:	Misc. waste organic chemicals
Waste Class:	263 L
Waste Class Name:	Misc. waste organic chemicals
Waste Class:	312 P
Waste Class Name:	Pathological wastes
Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders

5	***5 of 7***	***SE/61.8***	***80.2 / -1.69***	***Sanmina Corporation 500 March Road Ottawa ON K2K 0J9***	***GEN***

Generator No:	ON5466737
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	

Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 262 T
Waste Class Name: Detergents and soaps

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 212 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Name:		Aliphatic solvents and residues			
5	6 of 7	SE/61.8	80.2 / -1.69	**Sanmina Corporation** **500 March Road** **Ottawa ON K2K 0J9**	GEN

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 312 P

Waste Class Name: Pathological wastes

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 262 T
Waste Class Name: Detergents and soaps

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	7 of 7	SE/61.8	80.2 / -1.69	Sanmina Corporation 500 March Road Ottawa ON K2K 0J9	GEN

Generator No: ON5466737
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 T
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 232 I
Waste Class Name: POLYMERIC RESINS

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146 R
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 312 P

Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 262 T
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 263 C
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

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6 | **1 of 4** | **SE/63.3** | **79.9 / -2.00** | **510-528 March Road Kanata ON** | **EHS**

Order No: 20061012005
Status: C
Report Type: Custom Report
Report Date: 10/20/2006
Date Received: 10/12/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.917957
Y: 45.344121

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6 | **2 of 4** | **SE/63.3** | **79.9 / -2.00** | **528 March Road Ottawa ON** | **EHS**

Order No: 20140416041
Status: C
Report Type: Custom Report
Report Date: 22-APR-14
Date Received: 16-APR-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.917765
Y: 45.344926

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6 | **3 of 4** | **SE/63.3** | **79.9 / -2.00** | **SCI BROCKVILLE CORP. 528 MARCH KANATA ON** | **EASR**

Approval No: R-002-4521547225
Status: Registered
Date: 8/25/15
Record Type:
Link Source:
Project Type: Standby Power System
Full Address:

MOE District:
Municipality: KANATA
Latitude:
Longitude:
Geometry X:
Geometry Y:

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

Approval Type:
SWP Area Name:
PDF NAICS Code:
PDF URL:
PDF Site Location:

---

6 | **4 of 4** | **SE/63.3** | **79.9 / -2.00** | **SCI BROCKVILLE CORP.**
528 MARCH RD
KANATA ON K2K 2M5 | **EASR**

Approval No: R-002-4521547225
Status: REGISTERED
Date: 2015-08-25
Record Type: EASR
Link Source: MOFA
Project Type: Standby Power System
Full Address:
Approval Type: EASR-Standby Power System
SWP Area Name:
PDF NAICS Code:
PDF URL:
PDF Site Location:

MOE District:
Municipality: KANATA
Latitude:
Longitude:
Geometry X:
Geometry Y:

---

7 | **1 of 16** | **NNE/64.0** | **79.6 / -2.27** | **535 Legget Drive**
Kanata ON K2K 3B8 | **EHS**

Order No: 20100311004
Status: C
Report Type: Standard Report
Report Date: 3/19/2010
Date Received: 3/11/2010
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory

Nearest Intersection: Legget Drive and Terry Fox Drive
Municipality: Kanata
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.919057
Y: 45.347895

---

7 | **2 of 16** | **NNE/64.0** | **79.6 / -2.27** | **Nortel Networks Corporation**
535 Legget Drive
Ottawa ON | **CA**

Certificate #: 4854-5GZU2U
Application Year: 2002
Issue Date: 12/20/2002
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

7 | **3 of 16** | **NNE/64.0** | **79.6 / -2.27** | **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON | **CA**

Certificate #: 5182-5M9TGN
Application Year: 2003

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

Issue Date: 5/8/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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7 | ***4 of 16*** | ***NNE/64.0*** | ***79.6 / -2.27*** | ***Mead Johnson Nutritionals*** ***535 Legget Dr Unit 900*** ***Kanata ON K2K 3B8*** | ***SCT***

Established: 01-AUG-07
Plant Size (ft²):
Employment:

--Details--
Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

Description: Toiletries, Cosmetics and Sundries Wholesaler-Distributors
SIC/NAICS Code: 414520

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

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7 | ***5 of 16*** | ***NNE/64.0*** | ***79.6 / -2.27*** | ***PIKA Technologies Inc.*** ***535 Legget Dr Suite 400*** ***Kanata ON K2K 3B8*** | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

---

7 | ***6 of 16*** | ***NNE/64.0*** | ***79.6 / -2.27*** | ***Solace Systems Inc.*** ***535 Legget Dr Floor 3*** ***Kanata ON K2K 3B8*** | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing

SIC/NAICS Code: 334110

Description: Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors
SIC/NAICS Code: 417310

---

7 **7 of 16** **NNE/64.0** **79.6 / -2.27** **KANATA RESEARCH PARK**
535 LEGGET Drive
KANATA ON K2K3B8 **NPRI**

NPRI ID:	8800000227	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	
Rpt Type ID:		**Cont First Name:**	
Report Year:	2004	**Cont Last Name:**	
Not-Current Rpt?:		**Contact Position:**	
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	TOWER C	**Cont Area Code:**	
Fac Address1:		**Contact Tel.:**	
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	65	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10024-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrous oxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	10102-43-9
Report ID:	
Rpt Period:	2004

Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

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7 | **8 of 16** | **NNE/64.0** | **79.6 / -2.27** | **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3
ECA

Approval No: 8125-4MTJ36
Approval Date: 2001-03-29
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8015-4UUK67-14.pdf
PDF Site Location:

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7 | **9 of 16** | **NNE/64.0** | **79.6 / -2.27** | **Nortel Networks Corporation**
535 Legget Drive
Ottawa ON K2H 8E9
ECA

Approval No: 4854-5GZU2U
Approval Date: 2002-12-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Nortel Networks Corporation
Address: 535 Legget Drive

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

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0863-5DAQUM-14.pdf
PDF Site Location:

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7 **10 of 16** **NNE/64.0** **79.6 / -2.27** **Kanata Research Park Corporation** **ECA**
535 Legget Drive
Ottawa ON K2K 2X3

Approval No: 5816-5ALKNH
Approval Date: 2002-05-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8364-59NNET-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:

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7 **11 of 16** **NNE/64.0** **79.6 / -2.27** **Kanata Research Park Corporation** **ECA**
535 Legget Drive
Ottawa ON K2K 2X3

Approval No: 8125-4MTJ36
Approval Date: 2001-02-06
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5568-4R5PGT-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:

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7 **12 of 16** **NNE/64.0** **79.6 / -2.27** **Kanata Research Park Corporation** **ECA**
535 Legget Drive
Ottawa ON K2K 2X3

Approval No: 5182-5M9TGN
Approval Date: 2003-05-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2856-5DMHSA-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	13 of 16	NNE/64.0	79.6 / -2.27	Intel of Canada, Ltd. 535 Legget Drive Suite 206 Kanata ON K2K 3B8	GEN

Generator No: ON6268256
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	14 of 16	NNE/64.0	79.6 / -2.27	Mead Johnson Nutrition (Canada) Co. 900-535 Legget Drive Kanata ON K2K3B8	GEN

Generator No: ON4694482
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	15 of 16	NNE/64.0	79.6 / -2.27	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No: 20200513064
Status: C
Report Type: Standard Report
Report Date: 19-MAY-20
Date Received: 13-MAY-20
Previous Site Name:
Lot/Building Size:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9192125
Y: 45.3478896

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

Additional Info Ordered: Fire Insur. Maps and/or Site Plans

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7 | **16 of 16** | **NNE/64.0** | **79.6 / -2.27** | **PE5413 - 535 Legget Drive, Kanata ON K2K 2W2** | **EHS**

Order No:	21081600157	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	19-AUG-21	**Search Radius (km):**	.25
Date Received:	16-AUG-21	**X:**	-75.9164626
Previous Site Name:		**Y:**	45.3491336
Lot/Building Size:			
Additional Info Ordered:			

---

8 | **1 of 2** | **W/77.7** | **83.8 / 1.92** | **CAPRICORN DATA, 525 MARCH RD RR 33, KANATA ON K2K 2M5** | **SCT**

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: CARBON PAPER AND INKED RIBBONS
SIC/NAICS Code: 3955

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

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8 | **2 of 2** | **W/77.7** | **83.8 / 1.92** | **Capricorn Data Inc., 525 March Rd, Kanata ON K2K 2M5** | **SCT**

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

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9 | **1 of 1** | **NNE/79.7** | **79.3 / -2.62** | **Kanata Research Park Corporation, Kanata Research Park, Kanata ON K2K 2X3** | **ECA**

Approval No:	8125-4MTJ36	**MOE District:**	Ottawa
Approval Date:	2002-05-30	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.918846
Record Type:	ECA	**Latitude:**	45.348034
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: Kanata Research Park
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6185-4MFKX7-14.pdf

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

10 **1 of 5** **SSW/95.1** **82.9 / 1.00** **Texas Instruments Canada Ltd.** **SCT**
505 March Rd Suite 200
Ottawa ON K2K 3A4

Established: 1962
Plant Size (ft²):
Employment: 21

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

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10 **2 of 5** **SSW/95.1** **82.9 / 1.00** **505 March Road** **EHS**
Ottawa ON

Order No: 20050314003w
Status: C
Report Type:
Report Date: 3/14/2005 10:08:25 AM
Date Received: 3/14/2005 10:08:25 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: MA
Search Radius (km): 0.25
X: 0
Y: 0

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10 **3 of 5** **SSW/95.1** **82.9 / 1.00** **Texas Instruments Canada Ltd.** **SCT**
505 March Rd Suite 200
Kanata ON K2K 3A4

Established: 01-AUG-62
Plant Size (ft²):
Employment:

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

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10 **4 of 5** **SSW/95.1** **82.9 / 1.00** **Telus Health Solutions Inc.** **SCT**
505 March Rd Suite 450
Kanata ON K2K 3A4

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	5 of 5	SSW/95.1	82.9 / 1.00	Colonnade Management<UNOFFICIAL> 505 March Road Ottawa ON K2K 3A4	SPL

Ref No:	7635-8J2NEM	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	6/19/2011	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	6/21/2011	**Impact to Health:**	
Dt Document Closed:	12/3/2011	**Agency Involved:**	
Site No:			
MOE Response:	No Field Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:	circuit #2<UNOFFICIAL>		
Site Address:	505 March Road		
Site Region:			
Site Municipality:	Ottawa		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Discharge or Emission to Air		
Incident Preceding Spill:			
Environment Impact:	Not Anticipated		
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	41 kg		
System Facility Address:			
Client Name:	Colonnade Management<UNOFFICIAL>		
Client Type:			
Source Type:			
Contaminant Code:	38		
Contaminant Name:	REFRIGERANT GAS, N.O.S.		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	Sewage - Municipal/Private and Commercial		
Incident Reason:			
Incident Summary:	Kanata North Tech Park: 90 lbs R407C to atm		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Other		
SAC Action Class:	Air Spills - Gases and Vapours		
Call Report Locatn Geodata:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	W/96.5	84.9 / 3.00	lot 9 con 3 ON	WWIS

Well ID:	1503344	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	07/06/1964
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1503
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	

Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503344.pdf

Additional Detail(s) (Map)

Well Completed Date:	05/28/1964
Year Completed:	1964
Depth (m):	17.0688
Latitude:	45.3466282973595
Longitude:	-75.923100538294
X:	-75.92310037689158
Y:	45.346628290556055
Path:	150\1503344.pdf

Bore Hole Information

Bore Hole ID:	10025387	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427685.60
Code OB Desc:		**North83:**	5021872.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	05/28/1964	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Location Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996629
Layer:	2
Color:	
General Color:	
Material 1:	21
Material 1 Desc:	GRANITE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 930996628
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503344
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10573957
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043526
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043527
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 56.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991503344
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 12.0
Recommended Pump Depth: 40.0

Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456238
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	55.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	*1 of 2*	*S/100.4*	*80.8 / -1.08*	***Trend Micro, Inc.*** ***40 Hines Rd Suite 200*** ***Kanata ON K2K 2M5***	***SCT***

Established:	01-AUG-98
Plant Size (ft²):	
Employment:	

--Details--

Description:	Software Publishers
SIC/NAICS Code:	511210
Description:	Computer Systems Design and Related Services
SIC/NAICS Code:	541510
Description:	Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code:	334610

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	*2 of 2*	*S/100.4*	*80.8 / -1.08*	***KRP Properties*** ***40 Hines Road*** ***Ottawa ON K2K 2M5***	***GEN***

Generator No:	ON5372742
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	146 T
Waste Class Name:	Other specified inorganic sludges, slurries or solids

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 11	ENE/115.5	78.7 / -3.14	Open Text Corporation 515 Legget Dr Suite 300 Kanata ON K2K 3G4	SCT

Established: 1983
Plant Size (ft²): 19000
Employment: 55

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	2 of 11	ENE/115.5	78.7 / -3.14	Ubiquity Software Corp. 515 Legget Dr Suite 400 Ottawa ON K2K 3G4	SCT

Established: 1993
Plant Size (ft²):
Employment: 90

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	3 of 11	ENE/115.5	78.7 / -3.14	Kanata Research Park Corporation 515 Legget drive Ottawa ON	SPL

Ref No: 8118-7LCLK2
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/13/2008
Dt Document Closed: 11/26/2008
Site No:
MOE Response: Referral to others
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa
Nearest Watercourse:
Site Name: Kanata Research Park Corp<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Unknown
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact:
Contaminant Qty: other - see incident description
System Facility Address:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

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

Client Name:	Kanata Research Park Corporation
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Unknown - Reason not determined
Incident Summary:	Kanata Research Park, Diesel to Grnd cln
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

13	4 of 11	ENE/115.5	78.7 / -3.14	**Kanata Research Park Corporation** **515 Legget Drive** **Ottawa ON**	CA

Certificate #:	2275-5HUW47
Application Year:	2003
Issue Date:	1/18/2003
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

13	5 of 11	ENE/115.5	78.7 / -3.14	**Quest Software Canada Inc.** **515 Legget Dr Suite 1001** **Kanata ON K2K 3G4**	SCT

Established:	01-APR-87
Plant Size (ft²):	
Employment:	

--Details--

Description:	Computer Systems Design and Related Services
SIC/NAICS Code:	541510
Description:	Software Publishers
SIC/NAICS Code:	511210

13	6 of 11	ENE/115.5	78.7 / -3.14	**515 LEGGET DRIVE** **KANATA ON**	HINC

External File Num:	FS INC 0811-07034
Fuel Occurrence Type:	Leak
Date of Occurrence:	11/13/2008
Fuel Type Involved:	Fuel Oil
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)

Oper. Type Involved:	Commercial (e.g. restaurant, business unit, etc)
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:Yes Training: Yes Management:No Human Factors:Yes
Reported Details:	
Fuel Category:	Liquid Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

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13 | ***7 of 11*** | ***ENE/115.5*** | ***78.7 / -3.14*** | ***515 Legget Drive Ottawa ON*** | ***EHS***

Order No:	20120116006	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	1/20/2012	**Search Radius (km):**	0.25
Date Received:	1/16/2012 11:23:28 AM	**X:**	-75.91645
Previous Site Name:		**Y:**	45.346799
Lot/Building Size:			
Additional Info Ordered:			

---

13 | ***8 of 11*** | ***ENE/115.5*** | ***78.7 / -3.14*** | ***KANATA RESEARCH PARK 515 LEGGET Drive KANATA ON K2K3G4*** | ***NPRI***

NPRI ID:	8800000228	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	
Rpt Type ID:		**Cont First Name:**	
Report Year:	2004	**Cont Last Name:**	
Not-Current Rpt?:		**Contact Position:**	
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	TOWER D	**Cont Area Code:**	
Fac Address1:		**Contact Tel.:**	
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	294	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			

Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Substance Release Report

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004

Subst Released:	Methane
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	7446-09-5
Report ID:	
Rpt Period:	2004
Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	811-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	HFC-134a Hydrofluorocarbon
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M08
Report ID:	
Rpt Period:	2004
Subst Released:	PM - Total Particulate Matter
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M10
Report ID:	
Rpt Period:	2004
Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	9 of 11	ENE/115.5	78.7 / -3.14	515 Legget Dr Ottawa ON K2K3G4	EHS

Order No:	20160614073	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	20-JUN-16	**Search Radius (km):**	.25
Date Received:	14-JUN-16	**X:**	-75.917214

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

Previous Site Name: | **Y:** 45.347623
Lot/Building Size:
Additional Info Ordered:

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13 | **10 of 11** | **ENE/115.5** | **78.7 / -3.14**

Kanata Research Park Corporation
515 Legget Drive
Ottawa ON K2K 2X3

ECA

Approval No: 2275-5HUW47
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 515 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4311-5DXQ9R-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.91614
Latitude: 45.346527
Geometry X:
Geometry Y:

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13 | **11 of 11** | **ENE/115.5** | **78.7 / -3.14**

Broccolini Construction Ottawa Inc.
515 Legget Drive
Ottawa ON K2K 3G4

GEN

Generator No: ON3449897
SIC Code: 236210, 235220
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION, 235220
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

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14 | **1 of 2** | **WSW/123.6** | **84.6 / 2.72**

80 Hines Road
n/a ON K2K 2T8

EHS

Order No: 20060623001w
Status: C
Report Type: Online Mapless
Report Date: 6/23/2006
Date Received: 6/23/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: CA
Search Radius (km): 0.25
X:
Y:

---

14 | **2 of 2** | **WSW/123.6** | **84.6 / 2.72**

AMCC
80 Hines Rd.
Kanata ON K2K 2T8

GEN

Generator No: ON4203674
SIC Code: 339990
SIC Description: All Other Miscellaneous Manufacturing
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

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

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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15 | ***1 of 7*** | ***W/129.8*** | ***84.9 / 3.04*** | ***ROHDE & SCHWARZ CANADA***
555 MARCH RD
KANATA ON K2K 2M5 | ***SCT***

Established: 1970
Plant Size (ft²): 6000
Employment: 17

--Details--
Description: RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT
SIC/NAICS Code: 3663

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

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15 | ***2 of 7*** | ***W/129.8*** | ***84.9 / 3.04*** | ***TEKTRONIX CANADA INC.***
555 MARCH RD
KANATA ON K2K 2M5 | ***SCT***

Established: 0000
Plant Size (ft²): 0
Employment: 8

--Details--
Description: COMPUTERS AND COMPUTER PERIPHERAL EQUIPMENT AND SOFTWARE
SIC/NAICS Code: 5045

Description: ELECTRONIC PARTS AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5065

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15 | ***3 of 7*** | ***W/129.8*** | ***84.9 / 3.04*** | ***Rohde & Schwarz Canada Inc.***
555 March Rd
Kanata ON K2K 2M5 | ***SCT***

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

Established: 1970
Plant Size (ft²): 8000
Employment: 23

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

15	4 of 7	W/129.8	84.9 / 3.04	**Localcity** **555 March Rd** **Kanata ON K2K 2M5**	SCT

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

15	5 of 7	W/129.8	84.9 / 3.04	**Local City Inc.** **555 March Rd** **Kanata ON K2K 2M5**	SCT

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

15	6 of 7	W/129.8	84.9 / 3.04	**ASAP-CD Solutions** **555 March Rd** **Ottawa ON K2K 2M5**	SCT

Established: 1996
Plant Size (ft²):
Employment: 7

--Details--
Description: Commercial Screen Printing
SIC/NAICS Code: 323113

Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Sound Recording Studios
SIC/NAICS Code: 512240

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15 | **7 of 7** | **W/129.8** | **84.9 / 3.04** | **555 March Road Ottawa (Kanata) ON** | **EHS**

Order No: 20050715001
Status: C
Report Type: Custom Report
Report Date: 7/25/2005
Date Received: 7/15/2005
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.922669
Y: 45.347131

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16 | **1 of 1** | **W/131.2** | **84.9 / 3.04** | **ON** | **BORE**

Borehole ID: 609785
OGF ID: 215511400
Status:
Type: Borehole
Use:
Completion Date:
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 80.8
Elev Reliabil Note:
DEM Ground Elev m: 80.4
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.347075
Longitude DD: -75.923682
UTM Zone: 18
Easting: 427641
Northing: 5021922
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384079
Top Depth: 0
Bottom Depth: .6
Material Color:
Material 1: Silt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SILT.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218384080
Top Depth: .6
Bottom Depth:

Mat Consistency:
Material Moisture:
Material Texture:

Material Color: Black
Material 1: Bedrock
Material 2: Granite
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: BEDROCK,GRANITE. . GRANITE. GREY. GRANITE. BLACK. 003050. BEDROCK. SEISMIC VELOCITY = **Note: Many records provided by the department have a truncated [Stratum Description] field.

Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA1.txt RecordID: 022930 NTS_Sheet: 31G05D
Confiden 1: Reliable information but incomplete.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

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17 | 1 of 34 | N/134.8 | 79.9 / -1.94 | **NOKIA IP TELEPHONY CORPORATION**
555 LEGGET DR SUITE 400
KANATA ON K2K 2X3 | SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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17 | 2 of 34 | N/134.8 | 79.9 / -1.94 | **NOKIA**
555 Legget Dr Suite 400
Kanata ON K2K 2X3 | SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Other Leather and Allied Product Manufacturing
SIC/NAICS Code: 316990

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Telephone Apparatus Manufacturing

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

SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Battery Manufacturing
SIC/NAICS Code: 335910

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Description: Software Publishers
SIC/NAICS Code: 511210

17	3 of 34	N/134.8	79.9 / -1.94	**March Networks** **555 Legget Dr Suite 140** **Kanata ON K2K 2X3**	SCT

Established: 1991
Plant Size (ft²):
Employment: 55

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

17	4 of 34	N/134.8	79.9 / -1.94	**TELEXIS CORPORATION** **555 LEGGET DRIVE, SUITE 210** **KANATA ON K2K 2X3**	GEN

Generator No: ON2343800
SIC Code: 3352
SIC Description: ELECT. PARTS & COMP.
Approval Years: 97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 211

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

Waste Class Name: AROMATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

17	5 of 34	N/134.8	79.9 / -1.94	**PULSE CANADA LTD.** **555 LEGGET DRIVE SUITE 1036** **KANATA ON K2K 2X3**	GEN

Generator No: ON2399800
SIC Code: 4839
SIC Description: OTHER TELECOMMUN.
Approval Years: 98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

17	6 of 34	N/134.8	79.9 / -1.94	**PULSE CANADA LTD.** **555 LEGGET DRIVE SUITE 1036 TWR B** **KANATA ON K2K 2X3**	GEN

Generator No: ON2399800
SIC Code:
SIC Description:
Approval Years: 02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

17	7 of 34	N/134.8	79.9 / -1.94	**March Networks Corporation** **555 Legget Dr** **Ottawa ON K2K 2X3**	SCT

Established: 1991
Plant Size (ft²):
Employment: 90

--Details--

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

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

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17 | ***8 of 34*** | ***N/134.8*** | ***79.9 / -1.94*** | ***March Networks Corporation***
555 Legget Dr Suite 530
Kanata ON K2K 2X3 | ***SCT***

Established: 1991
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

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17 | ***9 of 34*** | ***N/134.8*** | ***79.9 / -1.94*** | ***KRP Management Services Inc.***
555 Legget Drive
Ottawa ON | ***GEN***

Generator No: ON4875456
SIC Code: 561420 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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

Waste Class: 243
Waste Class Name: PCB'S

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

17	10 of 34	N/134.8	79.9 / -1.94	**Redirack Storage Systems** **555 Legget Dr Tower A Suite 2007** **Ottawa ON K2K 2X3**	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Metal Service Centres
SIC/NAICS Code: 416210

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code: 417910

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Lumber, Plywood and Millwork Wholesaler-Distributors
SIC/NAICS Code: 416320

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: Wood Container and Pallet Manufacturing

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

SIC/NAICS Code: 321920

Description: Other Metal Container Manufacturing
SIC/NAICS Code: 332439

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17 **11 of 34** **N/134.8** **79.9 / -1.94** **March Networks**
555 Legget Drive
Ottawa ON K2K 2X3
GEN

Generator No: ON6420281
SIC Code:
SIC Description:
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

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17 **12 of 34** **N/134.8** **79.9 / -1.94** **Kanata Research Park Corporation**
555 Legget Drive
Ottawa ON
CA

Certificate #: 4220-5HUVP4
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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17 **13 of 34** **N/134.8** **79.9 / -1.94** **Netistix Technologies Corp**
555 Legget Dr Suite 304
Kanata ON K2K 2X3
SCT

Established: 01-DEC-02
Plant Size (ft²):
Employment:

--Details--

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

Description: Office Administrative Services
SIC/NAICS Code: 561110

Description: Software Publishers
SIC/NAICS Code: 511210

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17 | **14 of 34** | **N/134.8** | **79.9 / -1.94** | **Sch Specialty Literacy/Interve**
555 Legget Dr Suite 900
Kanata ON K2K 2X3 | **SCT**

Established: 01-AUG-92
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

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17 | **15 of 34** | **N/134.8** | **79.9 / -1.94** | **Redirack Storage Systems**
555 Legget Dr Suite 1007
Kanata ON K2K 2X3 | **SCT**

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Metal Service Centres
SIC/NAICS Code: 416210

Description: Other Metal Container Manufacturing
SIC/NAICS Code: 332439

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Lumber, Plywood and Millwork Wholesaler-Distributors
SIC/NAICS Code: 416320

Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing

SIC/NAICS Code: 332999

Description: Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code: 417910

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	16 of 34	N/134.8	79.9 / -1.94	**Mediphan Inc.** **555 Legget Dr Suite 305** **Ottawa ON K2K 2X3**	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

Description: Medical Equipment and Supplies Manufacturing
SIC/NAICS Code: 339110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	17 of 34	N/134.8	79.9 / -1.94	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 243
Waste Class Name: PCBS

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

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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17 | **18 of 34** | **N/134.8** | **79.9 / -1.94** | **KRP Management Services Inc.**
555 Legget Drive
Ottawa ON | **GEN**

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

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

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Name:		OTHER SPECIFIED INORGANICS			

17	19 of 34	N/134.8	79.9 / -1.94	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

17	20 of 34	N/134.8	79.9 / -1.94	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)
Approval Years: 2012
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

17	21 of 34	N/134.8	79.9 / -1.94	KANATA RESEARCH PARK 555 LEGGET Drive KANATA ON K2K2X3	NPRI

NPRI ID: 8800000226
Other ID:
No Other ID:
Track ID:
Report ID:
Report Type:
Rpt Type ID:
Report Year: 2004
Not-Current Rpt?:
Yr of Last Filed Rpt:
Fac ID:
Fac Name: TOWERS A & B
Fac Address1:
Fac Address2:
Fac Postal Zip:
Facility Lat:
Facility Long:

Org ID:
Submit Date:
Last Modified:
Contact ID:
Cont Type: MED
Contact Title:
Cont First Name:
Cont Last Name:
Contact Position:
Contact Fax:
Contact Ph.:
Cont Area Code:
Contact Tel.:
Contact Ext.:
Cont Fax Area Cde:
Contact Fax:
Contact Email:

DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	1036	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	

Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Substance Release Report

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5

Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Total Releases:					
Units:		tonnes			

17	22 of 34	N/134.8	79.9 / -1.94	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator No: ON4875456
SIC Code: 561420, 531120
SIC Description: TELEPHONE CALL CENTRES, LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

17	23 of 34	N/134.8	79.9 / -1.94	**555 Legget Dr** **Ottawa ON K2K2X3**	EHS

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

Order No: 20150903032
Status: C
Report Type: Custom Report
Report Date: 09-SEP-15
Date Received: 03-SEP-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.919803
Y: 45.348953

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17 | **24 of 34** | **N/134.8** | **79.9 / -1.94** | **555 Legget Dr**
Ottawa ON K2K2X3 | **EHS**

Order No: 20150304029
Status: C
Report Type: Custom Report
Report Date: 09-MAR-15
Date Received: 04-MAR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.919787
Y: 45.349161

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17 | **25 of 34** | **N/134.8** | **79.9 / -1.94** | **Kanata Research Park Corporation**
555 Legget Drive
Ottawa ON K2K 2X3 | **ECA**

Approval No: 4220-5HUVP4
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 555 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8337-5DXR24-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.909996
Latitude: 45.346844
Geometry X:
Geometry Y:

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17 | **26 of 34** | **N/134.8** | **79.9 / -1.94** | **Kanata Research Park Corp.**
555 Legget Drive
Ottawa ON K2K 2X3 | **GEN**

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Paul Allen
Choice of Contact: CO_ADMIN
Phone No Admin: 613-591-0594 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 145

Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

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

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

17	***27 of 34***	***N/134.8***	***79.9 / -1.94***	***Kanata Research Park Corp.*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	***GEN***

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Bob Bisson
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-591-0594 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

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

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145

Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

17	***28 of 34***	***N/134.8***	***79.9 / -1.94***	***Kanata Research Park Corp.*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	***GEN***

Generator No: ON4875456
SIC Code: 531310
SIC Description: REAL ESTATE PROPERTY MANAGERS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Bob Bisson
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-591-0594 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148

Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

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

Waste Class: 243
Waste Class Name: PCBS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	29 of 34	N/134.8	79.9 / -1.94	***KRP Properties A Division of Wesley Clover Interna*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	GEN

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 135 C
Waste Class Name: Wastes containing other reactive anions

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

17	30 of 34	N/134.8	79.9 / -1.94	KRP Properties A Division of Wesley Clover Interna 555 Legget Drive Ottawa ON K2K 2X3	GEN

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 135 C
Waste Class Name: Wastes containing other reactive anions

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

17	31 of 34	N/134.8	79.9 / -1.94	KRP Properties A Division of Wesley Clover Interna 555 Legget Drive Ottawa ON K2K 2X3	GEN

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 135 C
Waste Class Name: Wastes containing other reactive anions

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 121 C

Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

17	32 of 34	N/134.8	79.9 / -1.94	KRP Properties A Division of Wesley Clover Interna 555 Legget Drive Ottawa ON K2K 2X3	GEN

Generator No: ON4875456
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 135 C
Waste Class Name: REACTIVE ANION WASTES

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 242 A
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 146 R
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 243 D
Waste Class Name: PCBS

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

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17 | **33 of 34** | **N/134.8** | **79.9 / -1.94** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 22071300147
Status: C
Report Type: Site Report
Report Date: 14-JUL-22
Date Received: 13-JUL-22
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: MD
Search Radius (km): .001
X: -75.9194816
Y: 45.3490575

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17 | **34 of 34** | **N/134.8** | **79.9 / -1.94** | **555 Legget Drive Kanata ON K2K 3B8** | **EHS**

Order No: 20300900278
Status: C
Report Type: Standard Report
Report Date: 15-OCT-20
Date Received: 09-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9194816
Y: 45.3490575

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18 | **1 of 1** | **WNW/136.0** | **84.1 / 2.25** | **lot 9 con 3 ON** | **WWIS**

Well ID: 1510215
Construction Date:
Use 1st: Industrial
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10/23/1969
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3504
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:

Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510215.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/01/1969
Year Completed:	1969
Depth (m):	21.6408
Latitude:	45.347343670196
Longitude:	-75.9236866038524
X:	-75.9236864429178
Y:	45.34734366323822
Path:	151\1510215.pdf

Bore Hole Information

Bore Hole ID:	10032243	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427640.60
Code OB Desc:		***North83:***	5021952.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/01/1969	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Location Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931014234
Layer:	1
Color:	
General Color:	
Material 1:	25
Material 1 Desc:	OVERBURDEN
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931014235
Layer:	2
Color:	1
General Color:	WHITE
Material 1:	09

Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 71.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510215
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10580813
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057083
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057084
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 71.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 991510215
Pump Set At:
Static Level: 29.0
Final Level After Pumping: 50.0
Recommended Pump Depth: 60.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 7.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1

Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934379016
Test Type: Recovery
Test Duration: 30
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934640036
Test Type: Recovery
Test Duration: 45
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934096838
Test Type: Recovery
Test Duration: 15
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934896956
Test Type: Recovery
Test Duration: 60
Test Level: 29.0
Test Level UOM: ft

Water Details

Water ID: 933465173
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 62.0
Water Found Depth UOM: ft

Water Details

Water ID: 933465174
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

19	*1 of 20*	*NNW/141.1*	*79.9 / -1.98*	***NEWBRIDGE NETWORK CORPORATION*** ***600 MARCH RD*** ***KANATA ON K2K 2E6***	***SCT***

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

Established: 1986
Plant Size (ft²): 95000
Employment: 3000

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	2 of 20	NNW/141.1	79.9 / -1.98	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 1800

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	3 of 20	NNW/141.1	79.9 / -1.98	Alcatel Canada Inc. 600 March Rd Kanata ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 000

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	4 of 20	NNW/141.1	79.9 / -1.98	ALCATEL CANADA INC. 600 MARCH ROAD KANATA ON K2K 2E6	GEN

Generator No: ON0044812
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

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19 | ***5 of 20*** | ***NNW/141.1*** | ***79.9 / -1.98*** | ***Alcatel-Lucent Canada Inc.***
600 March Rd
Kanata ON K2K 2T6 | ***SCT***

Established: 01-JUN-86
Plant Size (ft²): 95000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

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19 | ***6 of 20*** | ***NNW/141.1*** | ***79.9 / -1.98*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2T6 | ***GEN***

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146

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

Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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19 | ***7 of 20*** | ***NNW/141.1*** | ***79.9 / -1.98*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2T6 | ***GEN***

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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19 | ***8 of 20*** | ***NNW/141.1*** | ***79.9 / -1.98*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2T6 | ***GEN***

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	9 of 20	NNW/141.1	79.9 / -1.98	ALCATEL CANADA INC. 600 March Road Kanata ON K2K 2T6	GEN

Generator No: ON0044812
SIC Code: 513390
SIC Description:
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	10 of 20	NNW/141.1	79.9 / -1.98	ALCATEL CANADA INC. 600 March Road Kanata ON	GEN

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

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

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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19 | ***11 of 20*** | ***NNW/141.1*** | ***79.9 / -1.98*** | ***NOKIA CANADA***
600 March Road
Kanata ON K2K 2E6 | ***GEN***

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252

Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

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19 | **12 of 20** | **NNW/141.1** | **79.9 / -1.98** | **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2E6 | **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

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19 | **13 of 20** | **NNW/141.1** | **79.9 / -1.98** | **ALCATEL CANADA INC.**
600 March Road
Kanata ON K2K 2E6 | **GEN**

Generator No: ON0044812
SIC Code: 513390
SIC Description: OTHER TELECOMMUNICATIONS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

19	14 of 20	NNW/141.1	79.9 / -1.98	NOKIA CANADA 600 March Road Kanata ON K2K 2E6	GEN

Generator No: ON0044812
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class:	112 C
Waste Class Name:	Acid solutions - containing heavy metals
Waste Class:	121 C
Waste Class Name:	Alkaline slutions - containing heavy metals
Waste Class:	122 C
Waste Class Name:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	146 R
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	146 T
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	148 I
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	213 I
Waste Class Name:	Petroleum distillates
Waste Class:	242 A
Waste Class Name:	Halogenated pesticides and herbicides
Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	263 I
Waste Class Name:	Misc. waste organic chemicals
Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders
Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	15 of 20	NNW/141.1	79.9 / -1.98	***NOKIA CANADA*** ***600 March Road*** ***Kanata ON K2K 2E6***	***GEN***

Generator No:	ON0044812
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

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

Detail(s)

Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints
Waste Class:	242 A
Waste Class Name:	Halogenated pesticides and herbicides
Waste Class:	148 I
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders
Waste Class:	146 R
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	112 C
Waste Class Name:	Acid solutions - containing heavy metals
Waste Class:	263 I
Waste Class Name:	Misc. waste organic chemicals
Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	146 T
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	121 C
Waste Class Name:	Alkaline slutions - containing heavy metals
Waste Class:	122 C
Waste Class Name:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	213 I
Waste Class Name:	Petroleum distillates

19	***16 of 20***	***NNW/141.1***	***79.9 / -1.98***	***NOKIA CANADA*** ***600 March Road*** ***Kanata ON K2K 2E6***	***GEN***

Generator No:	ON0044812
SIC Code:	
SIC Description:	
Approval Years:	As of Jan 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

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

Detail(s)

Waste Class:	122 C
Waste Class Name:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	263 I
Waste Class Name:	Misc. waste organic chemicals
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	146 R
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	213 I
Waste Class Name:	Petroleum distillates
Waste Class:	112 C
Waste Class Name:	Acid solutions - containing heavy metals
Waste Class:	148 I
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints
Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals
Waste Class:	212 I
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	146 T
Waste Class Name:	Other specified inorganic sludges, slurries or solids
Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	242 A
Waste Class Name:	Halogenated pesticides and herbicides
Waste Class:	121 C
Waste Class Name:	Alkaline slutions - containing heavy metals
Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	17 of 20	NNW/141.1	79.9 / -1.98	NOKIA CANADA 600 March Road Kanata ON K2K 2E6	GEN

Generator No:	ON0044812
SIC Code:	
SIC Description:	
Approval Years:	As of Oct 2022
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	145 I
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	148 I
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212 I
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	146 R
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	121 C
Waste Class Name:	ALKALINE WASTES - HEAVY METALS
Waste Class:	263 I
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	146 T
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	213 I
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	148 B
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	122 C
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	212 L
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	242 A
Waste Class Name:	HALOGENATED PESTICIDES
Waste Class:	252 L
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	331 I
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	112 C
Waste Class Name:	ACID WASTE - HEAVY METALS

19 ***18 of 20*** ***NNW/141.1*** ***79.9 / -1.98*** ***600 March Road lot 8 con 4 Kanata ON*** ***WWIS***

Well ID:	7444461	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Test Hole	***Date Received:***	05/03/2023
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	B7I3BZG8	***Contractor:***	7675
Tag:	A311062	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	008
Depth to Bedrock:		***Concession:***	04
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info: BH3-23
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009390051
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/17/2023
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 18
East83: 427934.00
North83: 5021836.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1009390262
Layer: 1
Color: 2
General Color: GREY
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1009390263
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.5
Formation End Depth: 19.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390468
Layer: 2
Plug From: 9.0
Plug To: 19.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390467
Layer: 1
Plug From: 0.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390416
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009390164
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 1009390122
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009390313
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 9.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009390346
Layer: 1
Slot: 10
Screen Top Depth: 9.0
Screen End Depth: 19.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch

Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009390123
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009390384
Diameter: 8.0
Depth From: 0.0
Depth To: 2.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1009390385
Diameter: 4.0
Depth From: 2.5
Depth To: 19.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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19 | **19 of 20** | **NNW/141.1** | **79.9 / -1.98** | **600 March Road lot 8 con 4 Kanata ON** | **WWIS**

Well ID: 7444459
Construction Date:
Use 1st: Test Hole
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: 4K543GI6
Tag: A125988
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/03/2023
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Site Info: BH6-23

Bore Hole Information

Bore Hole ID:	1009390045	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427856.00
Code OB Desc:		***North83:***	5021913.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/19/2023	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009390258
Layer:	1
Color:	2
General Color:	GREY
Material 1:	11
Material 1 Desc:	GRAVEL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1009390259
Layer:	2
Color:	2
General Color:	GREY
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1009390464
Layer:	2
Plug From:	5.0
Plug To:	15.0

Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390463
Layer: 1
Plug From: 0.0
Plug To: 5.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390414
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009390162
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 1009390118
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009390311
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009390344
Layer: 1
Slot: 10
Screen Top Depth: 5.0
Screen End Depth: 15.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009390119
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009390380
Diameter: 8.0
Depth From: 0.0
Depth To: 2.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1009390381
Diameter: 4.0
Depth From: 2.0
Depth To: 15.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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19 | ***20 of 20*** | ***NNW/141.1*** | ***79.9 / -1.98*** | ***600 March Road lot 8 con 4 Kanata ON*** | ***WWIS***

Well ID: 7444460
Construction Date:
Use 1st: Test Hole
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: YWVVUZ5R
Tag: A311059
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info: BH4-23

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/03/2023
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1009390048	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427943.00
Code OB Desc:		**North83:**	5021902.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	04/19/2023	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009390260
Layer:	1
Color:	2
General Color:	GREY
Material 1:	11
Material 1 Desc:	GRAVEL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1009390261
Layer:	2
Color:	2
General Color:	GREY
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1009390465
Layer:	1
Plug From:	0.0
Plug To:	10.0
Plug Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1009390415
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1009390466
Layer:	2
Plug From:	10.0
Plug To:	20.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1009390163
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1009390120
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1009390312
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1009390345
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	20.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009390121
Pump Set At:	

Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009390382
Diameter: 8.0
Depth From: 0.0
Depth To: 2.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1009390383
Diameter: 4.0
Depth From: 2.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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20 | ***1 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***MILLER'S QUALITY DRY CLEANERS***
591 MARCH ROAD
KANATA ON K2K 2M5 | ***GEN***

Generator No: ON2095500
SIC Code: 9721
SIC Description: POWER LAUND./CLEANERS
Approval Years: 95,96,97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

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20 | ***2 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***591 March Road***
Kanata ON K2K 2M5 | ***EHS***

Order No: 20061017022
Status: C
Report Type: Site Report
Report Date: 10/19/2006
Nearest Intersection:
Municipality: Kanata (Ottawa)
Client Prov/State: ON
Search Radius (km): 0.25

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

Date Received: 10/17/2006
Previous Site Name:
Lot/Building Size: STRIP PLAZA
Additional Info Ordered:
X: -75.923715
Y: 45.347553

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20 **3 of 15** **WNW/146.7** **84.1 / 2.25**

March Veterinary Professional Corporation
591 March Road
Kanata ON K2K 2M5

GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

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20 **4 of 15** **WNW/146.7** **84.1 / 2.25**

March Veterinary Professional Corporation
591 March Road
Kanata ON K2K 2M5

GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	5 of 15	WNW/146.7	84.1 / 2.25	March Veterinary Professional Corporation 591 March Road Kanata ON K2K 2M5	GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	6 of 15	WNW/146.7	84.1 / 2.25	March Veterinary Professional Corporation 591 March Road Kanata ON K2K 2M5	GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: Veterinary Services
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	7 of 15	WNW/146.7	84.1 / 2.25	March Veterinary Professional Corporation 591 March Road Kanata ON	GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: VETERINARY SERVICES

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

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20 | ***8 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***591 March Rd Ottawa ON K2K2M5*** | ***EHS***

Order No: 20151123050
Status: C
Report Type: Standard Select Report
Report Date: 27-NOV-15
Date Received: 23-NOV-15
Previous Site Name:
Lot/Building Size: 1.25 hectares (approx.)
Additional Info Ordered:

Nearest Intersection:
Municipality: City of Ottawa
Client Prov/State: ON
Search Radius (km): .25
X: -75.923843
Y: 45.347298

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20 | ***9 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***March Veterinary Professional Corporation 591 March Road Kanata ON K2K 2M5*** | ***GEN***

Generator No: ON3396254
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Tobie Jaros
Choice of Contact: CO_ADMIN
Phone No Admin: 613-591-2408 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	10 of 15	WNW/146.7	84.1 / 2.25	March Veterinary Professional Corporation 591 March Road Kanata ON K2K 2M5	GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Tobie Jaros
Choice of Contact: CO_ADMIN
Phone No Admin: 613-591-2408 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	11 of 15	WNW/146.7	84.1 / 2.25	March Veterinary Professional Corporation 591 March Road Kanata ON K2K 2M5	GEN

Generator No: ON3396254
SIC Code: 541940
SIC Description: VETERINARY SERVICES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Courtney C Cavanagh
Choice of Contact: CO_ADMIN
Phone No Admin: 613-591-2408 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	12 of 15	WNW/146.7	84.1 / 2.25	March Veterinary Professional Corporation 591 March Road Kanata ON K2K 2M5	GEN

Generator No: ON3396254
SIC Code:
SIC Description:

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

Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 A
Waste Class Name: Pharmaceuticals

Waste Class: 264 T
Waste Class Name: Photoprocessing wastes

Waste Class: 312 P
Waste Class Name: Pathological wastes

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20 | ***13 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***March Veterinary Professional Corporation***
591 March Road
Kanata ON K2K 2M5 | ***GEN***

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 264 T
Waste Class Name: Photoprocessing wastes

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 261 A
Waste Class Name: Pharmaceuticals

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20 | ***14 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***March Veterinary Professional Corporation***
591 March Road
Kanata ON K2K 2M5 | ***GEN***

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:

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

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 A
Waste Class Name: Pharmaceuticals

Waste Class: 264 T
Waste Class Name: Photoprocessing wastes

Waste Class: 312 P
Waste Class Name: Pathological wastes

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20 | ***15 of 15*** | ***WNW/146.7*** | ***84.1 / 2.25*** | ***March Veterinary Professional Corporation***
591 March Road
Kanata ON K2K 2M5 | ***GEN***

Generator No: ON3396254
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 A
Waste Class Name: PHARMACEUTICALS

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 264 T
Waste Class Name: PHOTOPROCESSING WASTES

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21 | ***1 of 1*** | ***W/148.6*** | ***85.7 / 3.86*** | ***D.I.R. Investments Inc.***

Ottawa ON K0A 1A0 | ***ECA***

Approval No: 2390-6NBQN4
Approval Date: 2006-04-03
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.92376
Latitude: 45.346516
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: D.I.R. Investments Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8134-6MRTG9-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 16	SW/161.0	82.9 / 1.00	EXCALIBUR SYSTEMS LTD. 50 Hines Rd Kanata ON K2K 2M5	SCT

Established: 1988
Plant Size (ft²): 10000
Employment: 21

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	2 of 16	SW/161.0	82.9 / 1.00	HUBER & SUHNER CANADA 50 HINES ROAD KANATA ON K2K 2M5	GEN

Generator No: ON2494100
SIC Code: 4821
SIC Description: TELECOMMUN. CARRRIERS
Approval Years: 99,00,01,03
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	3 of 16	SW/161.0	82.9 / 1.00	HUBER & SUHNER CANADA 50 HINES ROAD KANATA ON K2K 2M5	GEN

Generator No: ON2494100
SIC Code:
SIC Description:

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

Approval Years: 02
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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22 | ***4 of 16*** | ***SW/161.0*** | ***82.9 / 1.00*** | ***HUBER & SUHNER CANADA***
50 HINES ROAD
KANATA ON K2K 2M5 | ***GEN***

Generator No: ON2494100
SIC Code:
SIC Description:
Approval Years: 04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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22 | ***5 of 16*** | ***SW/161.0*** | ***82.9 / 1.00*** | ***DRS EW & Network Systems***
50 Hines Rd
Kanata ON K2K 2M5 | ***SCT***

Established: 1988
Plant Size (ft²): 10000
Employment: 25

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

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22 | ***6 of 16*** | ***SW/161.0*** | ***82.9 / 1.00*** | ***WorkDynamics Technologies***
50 Hines Rd Suite 220
Kanata ON K2K 2M5 | ***SCT***

Established: 01-OCT-98
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer Systems Design and Related Services

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC/NAICS Code:		541510			

22	7 of 16	SW/161.0	82.9 / 1.00	**DRS EW & Network Systems (Canada) Ltd.** **50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa** **ON**	EBR

EBR Registry No: IA04E1366
Ministry Ref No: 5540-654NXU
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 22, 2005
Proposal Date: September 24, 2004
Year: 2004
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: DRS EW & Network Systems (Canada) Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road, Suite 200, Ottawa Ontario, K2K 2M5
Comment Period:
URL:

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

Site Location Details:

50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa

22	8 of 16	SW/161.0	82.9 / 1.00	**Power Integrations Canada Inc.** **50 Hines Rd Suite 240** **Kanata ON K2K 2M5**	SCT

Established: 01-AUG-00
Plant Size (ft²):
Employment:

--Details--
Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

22	9 of 16	SW/161.0	82.9 / 1.00	**OneChip Photonics Inc.** **50 Hines Rd Suite 200** **Kanata ON K2K 2M5**	SCT

Established: 8/1/2005
Plant Size (ft²): 17000
Employment:

--Details--
Description: Commercial and Service Industry Machinery Manufacturing
SIC/NAICS Code: 333310

22	10 of 16	SW/161.0	82.9 / 1.00	**Cyrium Technologies Incorporated** **50 Hines Road Unit Suite 200 Ottawa K2K 2M5** **CITY OF OTTAWA**	EBR

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

EBR Registry No: 010-9829
Ministry Ref No: 5633-84JKT3
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 07, 2011
Proposal Date: April 27, 2010
Year: 2010
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Cyrium Technologies Incorporated
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road , Suite 200, Kanata Ontario, Canada K2K 2M5
Comment Period:
URL:

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

Site Location Details:

50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA

22	11 of 16	SW/161.0	82.9 / 1.00	**Cyrium Technologies Incorporated** **50 Hines Rd Kanata** **Ottawa ON**	CA

Certificate #: 0093-89LSKT
Application Year: 2010
Issue Date: 12/15/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

22	12 of 16	SW/161.0	82.9 / 1.00	**DRS EW & Network Systems (Canada) Ltd.** **50 Hines Road, Suite 200** **Ottawa ON**	CA

Certificate #: 0429-69NPJ2
Application Year: 2005
Issue Date: 2/16/2005
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	13 of 16	SW/161.0	82.9 / 1.00	Merge Healthcare Incorporated 50 Hines Rd Suite 120 Kanata ON K2K 2M5	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	14 of 16	SW/161.0	82.9 / 1.00	GaN Systems Inc. 50 Hines road, suite 204 Ottawa ON	GEN

Generator No: ON8149211
SIC Code: 334290
SIC Description: OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	15 of 16	SW/161.0	82.9 / 1.00	Cyrium Technologies Incorporated 50 Hines Rd Kanata Ottawa ON	ECA

Approval No: 0093-89LSKT
Approval Date: 2010-12-15
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Cyrium Technologies Incorporated
Address: 50 Hines Rd Kanata
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5633-84JKT3-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	16 of 16	SW/161.0	82.9 / 1.00	DRS EW & Network Systems (Canada) Ltd. 50 Hines Road, Suite 200 Ottawa ON K2K 2M5	ECA

Approval No: 0429-69NPJ2
Approval Date: 2005-02-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: DRS EW & Network Systems (Canada) Ltd.
Address: 50 Hines Road, Suite 200
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5540-654NXU-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	1 of 15	WSW/172.5	85.9 / 4.00	WILLIAM S. BURNSIDE (CANADA) LIMITED 88 HINES ROAD (SWM) KANATA ON K2K 2T8	CA

Certificate #: 3-0347-98-
Application Year: 98
Issue Date: 6/12/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	2 of 15	WSW/172.5	85.9 / 4.00	Flexus Electronics Inc. 88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SCT

Established: 01-AUG-91
Plant Size (ft²): 7000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	3 of 15	WSW/172.5	85.9 / 4.00	Flexus Inc. 88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	SCT

Established: 9/1/1991
Plant Size (ft²): 7000
Employment:

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

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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23 | ***4 of 15*** | ***WSW/172.5*** | ***85.9 / 4.00*** | ***Telemus Inc.***
88 Hines Road
Ottawa ON K2K 2T8 | ***GEN***

Generator No: ON7263654
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 04,05,06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

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23 | ***5 of 15*** | ***WSW/172.5*** | ***85.9 / 4.00*** | ***Telemus Inc.***
88 Hines Rd
Kanata ON K2K 2T8 | ***SCT***

Established: 1994
Plant Size (ft²):
Employment:

--Details--
Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Engineering Services

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

SIC/NAICS Code: 541330

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23 | ***6 of 15*** | ***WSW/172.5*** | ***85.9 / 4.00*** | ***954050 ONTARIO INC.***
88 HINES RD
KANATA ON | ***GEN***

Generator No: ON5315252
SIC Code: 335990
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

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23 | ***7 of 15*** | ***WSW/172.5*** | ***85.9 / 4.00*** | ***Ultra Electronics***
88 Hines Rd
Kanata ON K2K 2T8 | ***SCT***

Established: 01-AUG-94
Plant Size (ft²):
Employment:

--Details--
Description: Engineering Services
SIC/NAICS Code: 541330

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	8 of 15	WSW/172.5	85.9 / 4.00	954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2T8	GEN

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

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

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	9 of 15	WSW/172.5	85.9 / 4.00	954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2T8	GEN

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

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

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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23 ***10 of 15*** ***WSW/172.5*** ***85.9 / 4.00*** ***Ultra Electronics Canada Defence Inc.*** ***GEN***
88 Hines Road
Ottawa ON

Generator No: ON7263654
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

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23 ***11 of 15*** ***WSW/172.5*** ***85.9 / 4.00*** ***Ultra Electronics TCS Inc.*** ***GEN***
88 Hines Road
Ottawa ON

Generator No: ON7263654
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	12 of 15	WSW/172.5	85.9 / 4.00	954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2T8	GEN

Generator No: ON5315252
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

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23 | **13 of 15** | **WSW/172.5** | **85.9 / 4.00** | **Ultra Electronics TCS Inc.**
88 Hines Road
Ottawa ON | **GEN**

Generator No: ON7263654
SIC Code: 335990
SIC Description: All Other Electrical Equipment and Component Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

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23 | **14 of 15** | **WSW/172.5** | **85.9 / 4.00** | **ULTRA ELECTRONICS**
88 HINES RD
OTTAWA ON K2K2T8 | **GEN**

Generator No: ON4360723
SIC Code: 334410
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada

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

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

23	15 of 15	WSW/172.5	85.9 / 4.00	**954050 ONTARIO INC.** **88 HINES RD** **KANATA ON K2K 2B8**	GEN

Generator No: ON5315252
SIC Code: 335990
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Nguyen Tieu
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-591-0768 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

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

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

24	1 of 7	WSW/172.5	84.8 / 2.97	**TeleWatch Monitoring Services** **84 Hines Rd Suite 130** **Kanata ON K2K 3G3**	SCT

Established: 2003

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

Plant Size (ft²):
Employment:

--Details--
Description: Other Scientific and Technical Consulting Services
SIC/NAICS Code: 541690

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

24	2 of 7	WSW/172.5	84.8 / 2.97	**Metconnex Inc.** **84 Hines Road Suite 260** **Ottawa ON**	GEN

Generator No: ON3229484
SIC Code: 339990
SIC Description: All Other Miscellaneous Manufacturing
Approval Years: 06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

24	3 of 7	WSW/172.5	84.8 / 2.97	**Sidense Corp.** **84 Hines Rd Suite 260** **Kanata ON K2K 3G3**	SCT

Established: 01-AUG-04
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

24	4 of 7	WSW/172.5	84.8 / 2.97	**Skyworks Solutions (Test Lab)** **84 Hines Rd, Suite 100** **Kanata ON K2K 3G3**	GEN

Generator No: ON9560250
SIC Code: 417310

SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

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24 | **5 of 7** | **WSW/172.5** | **84.8 / 2.97** | **Skyworks Solutions Inc**
100-84 Hines Road
Kanata ON K2K 3G3 | **GEN**

Generator No: ON7912119
SIC Code: 417310
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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24 | **6 of 7** | **WSW/172.5** | **84.8 / 2.97** | **Skyworks Solutions Inc**
100-84 Hines Road
Kanata ON K2K 3G3 | **GEN**

Generator No: ON7912119
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

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24 | **7 of 7** | **WSW/172.5** | **84.8 / 2.97** | **Skyworks Solutions Inc**
100-84 Hines Road
Kanata ON K2K 3G3 | **GEN**

Generator No: ON7912119
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

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25 | **1 of 1** | **SSE/173.3** | **80.9 / -0.97** | **ON** | **BORE**

Borehole ID: 609771
OGF ID: 215511386
Status:
Type: Borehole
Use:
Completion Date: NOV-1952
Static Water Level: -13.0
Primary Water Use:
Sec. Water Use:
Total Depth m: 18.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 82.3
Elev Reliabil Note:
DEM Ground Elev m: 78.2
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.343425
Longitude DD: -75.918645
UTM Zone: 18
Easting: 428031
Northing: 5021512
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218384040
Top Depth: .9
Bottom Depth: 18.9
Material Color:
Material 1: Sandstone
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SANDSTONE. 315.0 FEET.GRAVEL. BEDROCK. BEDROCK,LIMESTONE. 350220470450000001600000 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID:	218384039	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL. BROWN.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 02279 NTS_Sheet:		
Confiden 1:			

Source List

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

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26 | ***1 of 1*** | ***SSE/173.4*** | ***80.9 / -0.97*** | ***lot 8 con 3 ON*** | ***WWIS***

Well ID:	1503343	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	12/01/1952
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1802
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	008
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503343.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/25/1952
Year Completed:	1952

Depth (m):	18.8976
Latitude:	45.3434237229267
Longitude:	-75.9186447387699
X:	-75.91864457762533
Y:	45.34342371629605
Path:	150\1503343.pdf

Bore Hole Information

Bore Hole ID:	10025386	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	428030.60
Code OB Desc:		**North83:**	5021512.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	11/25/1952	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9

Location Method Desc:	Original Pre1985 UTM Rel Code 9: unknown UTM
Elevrc Desc:	
Location Source Date:	
Improvement Location Source:	
Improvement Location Method:	
Source Revision Comment:	
Supplier Comment:	

Overburden and Bedrock Materials Interval

Formation ID:	930996626
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930996627
Layer:	2
Color:	
General Color:	
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	62.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 961503343
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573956
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043524
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043525
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 62.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991503343
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 30.0
Recommended Pump Depth:
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933456237
Layer: 1
Kind Code: 1

Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

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27 | **1 of 1** | **ESE/173.7** | **79.6 / -2.31** | **3001 SOLANDT RD. KANATA ON** | **WWIS**

Well ID: 7296271
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z262367
Tag: A228985
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info: BLOCK 18

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/02/2017
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1119
Form Version: 7
Owner:
County: OTTAWA-CARLETON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/729\7296271.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/30/2017
Year Completed: 2017
Depth (m): 55.7784
Latitude: 45.3445114028557
Longitude: -75.9165893549302
X: -75.91658919331677
Y: 45.344511396766556
Path: 729\7296271.pdf

Bore Hole Information

Bore Hole ID: 1006747513
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08/30/2017
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 428193.00
North83: 5021631.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	1006933918
Layer:	4
Color:	2
General Color:	GREY
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	75.0
Formation End Depth:	90.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933921
Layer:	7
Color:	7
General Color:	RED
Material 1:	21
Material 1 Desc:	GRANITE
Material 2:	20
Material 2 Desc:	QUARTZITE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	173.0
Formation End Depth:	183.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933917
Layer:	3
Color:	2
General Color:	GREY
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	50.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006933920
Layer:	6
Color:	7
General Color:	RED
Material 1:	21
Material 1 Desc:	GRANITE
Material 2:	20
Material 2 Desc:	QUARTZITE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	125.0

Formation End Depth: 173.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933915
Layer: 1
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 45.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933916
Layer: 2
Color:
General Color:
Material 1: 28
Material 1 Desc: SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3:
Material 3 Desc:
Formation Top Depth: 45.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006933919
Layer: 5
Color: 7
General Color: RED
Material 1: 21
Material 1 Desc: GRANITE
Material 2: 20
Material 2 Desc: QUARTZITE
Material 3:
Material 3 Desc:
Formation Top Depth: 90.0
Formation End Depth: 125.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006933958
Layer: 1
Plug From: 56.0
Plug To: 46.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006933959
Layer:	2
Plug From:	46.0
Plug To:	0.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006933957
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	SURGE

Pipe Information

Pipe ID:	1006933913
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006933928
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	56.0
Depth To:	183.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	1006933927
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	-2.0
Depth To:	56.0
Casing Diameter:	6.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006933929
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1006933914
Pump Set At:	140.0
Static Level:	6.0
Final Level After Pumping:	88.5999984741211
Recommended Pump Depth:	140.0
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	7.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	1006933941
Test Type:	Recovery
Test Duration:	10
Test Level:	17.399999618530273
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933942
Test Type:	Draw Down
Test Duration:	15
Test Level:	63.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933935
Test Type:	Recovery
Test Duration:	3
Test Level:	46.29999923706055
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933951
Test Type:	Recovery
Test Duration:	40
Test Level:	6.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006933931
Test Type:	Recovery
Test Duration:	1
Test Level:	62.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 1006933936
Test Type: Draw Down
Test Duration: 4
Test Level: 37.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933945
Test Type: Recovery
Test Duration: 20
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933947
Test Type: Recovery
Test Duration: 25
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933948
Test Type: Draw Down
Test Duration: 30
Test Level: 76.9000015258789
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933949
Test Type: Recovery
Test Duration: 30
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933953
Test Type: Recovery
Test Duration: 50
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933954
Test Type: Draw Down
Test Duration: 60
Test Level: 88.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933932
Test Type: Draw Down

Test Duration: 2
Test Level: 25.200000762939453
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933934
Test Type: Draw Down
Test Duration: 3
Test Level: 32.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933939
Test Type: Recovery
Test Duration: 5
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933944
Test Type: Draw Down
Test Duration: 20
Test Level: 71.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933946
Test Type: Draw Down
Test Duration: 25
Test Level: 74.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933955
Test Type: Recovery
Test Duration: 60
Test Level: 6.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933940
Test Type: Draw Down
Test Duration: 10
Test Level: 57.79999923706055
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933943
Test Type: Recovery
Test Duration: 15
Test Level: 10.600000381469727
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933952
Test Type: Draw Down
Test Duration: 50
Test Level: 84.5999984741211
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933933
Test Type: Recovery
Test Duration: 2
Test Level: 53.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933937
Test Type: Recovery
Test Duration: 4
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933930
Test Type: Draw Down
Test Duration: 1
Test Level: 16.899999618530273
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933938
Test Type: Draw Down
Test Duration: 5
Test Level: 41.20000076293945
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006933950
Test Type: Draw Down
Test Duration: 40
Test Level: 80.4000015258789
Test Level UOM: ft

Water Details

Water ID: 1006933925
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 125.0
Water Found Depth UOM: ft

Water Details

Water ID:	1006933926
Layer:	3
Kind Code:	8
Kind:	Untested
Water Found Depth:	173.0
Water Found Depth UOM:	ft

Water Details

Water ID:	1006933924
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	75.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006933923
Diameter:	6.0
Depth From:	56.0
Depth To:	183.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1006933922
Diameter:	9.75
Depth From:	0.0
Depth To:	56.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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28 ***1 of 1*** ***E/178.1*** ***77.9 / -4.00*** ***ON*** ***WWIS***

Well ID:	7393876	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	07/28/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C50172	**Contractor:**	7328
Tag:	A307318	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008730152	**Tag No:**	A307318
Depth M:		**Contractor:**	7328

Year Completed:	2021	**Latitude:**	45.3463576855216
Well Completed Dt:	06/29/2021	**Longitude:**	-75.9153426479555
Audit No:	C50172	**Y:**	45.34635767964541
Path:		**X:**	-75.91534248646767

Bore Hole Information

Bore Hole ID:	1008730152	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	428293.00
Code OB Desc:		**North83:**	5021835.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	06/29/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

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29 | ***1 of 1*** | ***NNW/183.6*** | ***79.9 / -1.94*** | ***MINTO DEVELOPMENTS INC.***
LEGGET DR/TERRY FOX DR/SOLANDT
KANATA CITY ON | ***CA***

Certificate #:	3-0976-95-
Application Year:	95
Issue Date:	7/20/1995
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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30 | ***1 of 1*** | ***W/190.3*** | ***84.8 / 2.88*** | ***555, 591, 595, and 603 March Road***
Kanata ON K2K 2M5 | ***EHS***

Order No:	22051300303	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report - Quote	**Client Prov/State:**	ON
Report Date:	01-JUN-22	**Search Radius (km):**	.3
Date Received:	13-MAY-22	**X:**	-75.92442977
Previous Site Name:		**Y:**	45.3471724
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory		

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31 | ***1 of 4*** | ***SW/193.1*** | ***83.8 / 1.95*** | ***70 Hines Rd.***
Kanata ON K2K 2M5 | ***EHS***

Order No:	20030506003	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Complete Report	**Client Prov/State:**	ON
Report Date:	5/14/03	**Search Radius (km):**	0.35

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

Date Received: 5/6/03
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
X: -75.922054
Y: 45.345364

---

31 **2 of 4** **SW/193.1** **83.8 / 1.95** **2117547 Ontario Inc.** **CA**
70 Hines Rd
Ottawa ON

Certificate #: 1183-8GPFW8
Application Year: 2011
Issue Date: 5/20/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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31 **3 of 4** **SW/193.1** **83.8 / 1.95** **2117547 Ontario Inc.** **ECA**
70 Hines Rd
Ottawa ON K2V 1B8

Approval No: 1183-8GPFW8
Approval Date: 2011-05-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: 2117547 Ontario Inc.
Address: 70 Hines Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4593-89YRCE-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.92153
Latitude: 45.34491
Geometry X:
Geometry Y:

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31 **4 of 4** **SW/193.1** **83.8 / 1.95** **Rogers Communications Inc.** **SPL**
70 Hines Rd.; 70 Hines Rd
Ottawa; Ottawa ON K2K 2M5

Ref No: 4845-BF9RH6
Year:
Incident Dt: 8/20/2019
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/21/2019
Dt Document Closed:
Site No: NA; 3801-89YRCZ
MOE Response: No
Site County/District: NA
Site Geo Ref Meth: NA
Site District Office: Ottawa; Ottawa
Nearest Watercourse:
Site Name: Legion Branch 638<UNOFFICIAL>; 70 Hines Road
Site Address: 70 Hines Rd.; 70 Hines Rd
Site Region: Eastern
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Site Municipality:	Ottawa; Ottawa
Site Lot:	
Site Conc:	NA
Site Geo Ref Accu:	NA
Site Map Datum:	NA
Northing:	NA
Easting:	NA
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	250 L
System Facility Address:	
Client Name:	Rogers Communications Inc.
Client Type:	Corporation
Source Type:	Valve/Fitting/Piping
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	1202
Receiving Medium:	Land; Source Water Zone
Incident Reason:	Material Failure - Poor Design/Substandard Material
Incident Summary:	Rogers: ~150-250L diesel to ground/cracked line
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Unknown / N/A
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

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32 | ***1 of 1*** | ***WNW/198.5*** | ***83.9 / 2.03*** | ***603 March Road lot 9 con 3 Kanata ON*** | ***WWIS***

Well ID:	7405268	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	12/08/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z6EP8U5Z	**Contractor:**	7675
Tag:	A311085	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008877133	**Tag No:**	A311085
Depth M:	9.144	**Contractor:**	7675
Year Completed:	2021	**Latitude:**	45.3479699054041
Well Completed Dt:	11/18/2021	**Longitude:**	-75.9241640040502
Audit No:	Z6EP8U5Z	**Y:**	45.34796989883108

Path:		***X:***	-75.92416384248261

Bore Hole Information

Bore Hole ID:	1008877133	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427604.00
Code OB Desc:		***North83:***	5022022.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	11/18/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008877310
Layer:	1
Color:	
General Color:	
Material 1:	
Material 1 Desc:	
Material 2:	02
Material 2 Desc:	TOPSOIL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008877311
Layer:	2
Color:	
General Color:	
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	30.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008877454
Layer:	2
Plug From:	1.0
Plug To:	19.0

Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877453
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877427
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877455
Layer: 3
Plug From: 19.0
Plug To: 30.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008877229
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1008877189
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008877354
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 20.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008877381
Layer: 1

Slot:	10
Screen Top Depth:	20.0
Screen End Depth:	30.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008877190
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008877271
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	23.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008877402
Diameter:	8.0
Depth From:	0.0
Depth To:	1.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1008877403
Diameter:	4.0
Depth From:	1.0
Depth To:	30.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

33	***1 of 1***	***WNW/199.8***	***83.8 / 1.97***	***603 March Road lot 9 con 3 Kanata ON***	***WWIS***

Well ID:	7408599	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	

Final Well Status:	Abandoned-Quality	**Date Received:**	01/18/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	D8FEDWG8	**Contractor:**	7675
Tag:	A311091	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7408599.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/22/2021
Year Completed:	2021
Depth (m):	12.8016
Latitude:	45.3478519731687
Longitude:	-75.9242769732984
X:	-75.92427681189048
Y:	45.347851966562025
Path:	740\7408599.pdf

Bore Hole Information

Bore Hole ID:	1008930840	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427595.00
Code OB Desc:		**North83:**	5022009.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12/22/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008930978
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	12
Material 2 Desc:	STONES
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0

Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008930979
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	18
Material 2 Desc:	SANDSTONE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	4.0
Formation End Depth:	42.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008931077
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008931099
Layer:	1
Plug From:	0.0
Plug To:	30.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008931100
Layer:	2
Plug From:	30.0
Plug To:	42.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008930936
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1008930898
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008931009
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	32.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008931029
Layer:	1
Slot:	10
Screen Top Depth:	32.0
Screen End Depth:	42.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008930899
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008931052
Diameter:	4.0
Depth From:	4.0
Depth To:	42.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1008931051
Diameter:	8.0
Depth From:	0.0
Depth To:	4.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	1 of 11	E/200.0	79.0 / -2.89	SR TELECOM 425 LEGGET DR KANATA ON K2K 2W2	SCT

Established: 1986
Plant Size (ft²): 0
Employment: 200

--Details--
Description: RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT
SIC/NAICS Code: 3663

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	2 of 11	E/200.0	79.0 / -2.89	425 Legget Dr Kanata ON K2K 2W2	EHS

Order No: 20010711004
Status: C
Report Type: Complete Report
Report Date: 7/16/01
Date Received: 7/11/01
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.914926
Y: 45.344584

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	3 of 11	E/200.0	79.0 / -2.89	SR TELECOM INC. 425 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON2171800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 96,97,98,99
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	4 of 11	E/200.0	79.0 / -2.89	C-MAC KANATA INC. 425 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON2171800
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 00,01
PO Box No:

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

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	5 of 11	E/200.0	79.0 / -2.89	C-MAC KANATA INC. 425 LEGETT DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON2171800
SIC Code:
SIC Description:
Approval Years: 02
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	6 of 11	E/200.0	79.0 / -2.89	C-MAC ELCTRONIC SYSTEM INC., SOLECTRON COMPANY 425 LEGETT DRIVE KANATA ON	GEN

Generator No: ON2171800
SIC Code: 334110
SIC Description: Computer & Peripheral Equipment Mfg.
Approval Years: 03,04,05,06
PO Box No:
Country:
Status:
Co Admin:

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 265
Waste Class Name: GRAPHIC ART WASTES

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

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

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

34	***7 of 11***	***E/200.0***	***79.0 / -2.89***	***Solectron EMS Canada 425 Legget Dr Kanata ON K2K 2W2***	***SCT***

Established: 1977
Plant Size (ft²):
Employment: 300

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	8 of 11	E/200.0	79.0 / -2.89	425 Legget Drive Ottawa ON	EHS

Order No:	20120213010	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	2/17/2012 10:02:42 AM	**Search Radius (km):**	0.25
Date Received:	2/13/2012 10:00:24 AM	**X:**	-75.915606
Previous Site Name:		**Y:**	45.345057
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	9 of 11	E/200.0	79.0 / -2.89	AVAYA CANADA CORP 425 LEGGET DRIVE OTTAWA ON K2K 2W2	EASR

Approval No:	R-002-4150428271	**MOE District:**	Ottawa
Status:	REGISTERED	**Municipality:**	OTTAWA
Date:	2012-08-27	**Latitude:**	45.345882
Record Type:	EASR	**Longitude:**	-75.91489
Link Source:	MOFA	**Geometry X:**	
Project Type:	Standby Power System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Standby Power System		
SWP Area Name:	Mississippi Valley		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	10 of 11	E/200.0	79.0 / -2.89	425 Legget Drive Property GP Inc. 425 Legget Dr Ottawa ON	ECA

Approval No:	6998-95YSRC	**MOE District:**	Ottawa
Approval Date:	2013-03-21	**City:**	
Status:	Approved	**Longitude:**	-75.91489
Record Type:	ECA	**Latitude:**	45.345882
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	425 Legget Drive Property GP Inc.		
Address:	425 Legget Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2476-8VQN7M-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
34	11 of 11	E/200.0	79.0 / -2.89	425 Legget Drive Kanata ON K2K 3C9	EHS

Order No:	20292800081	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	01-OCT-20	**Search Radius (km):**	.25
Date Received:	28-SEP-20	**X:**	-75.9150514
Previous Site Name:		**Y:**	45.3456468
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
35	1 of 1	W/201.8	85.8 / 3.94	591 MARCH ROAD lot 9 con 3 KANATA ON	WWIS

Well ID: 7151742
Construction Date:
Use 1st: Test Hole
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z107013
Tag: A094409
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 09/22/2010
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6964
Form Version: 7
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/715\7151742.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/20/2010
Year Completed: 2010
Depth (m): 7.85
Latitude: 45.3465988786813
Longitude: -75.9245118807105
X: -75.92451171956989
Y: 45.34659887221653
Path: 715\7151742.pdf

Bore Hole Information

Bore Hole ID: 1003338591
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/20/2010
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 427575.00
North83: 5021870.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1003478979

Layer: 4
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.4199999570846558
Formation End Depth: 1.899999976158142
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478976
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.03999999910593033
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478977
Layer: 2
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2:
Material 2 Desc:
Material 3: 84
Material 3 Desc: SILTY
Formation Top Depth: 0.03999999910593033
Formation End Depth: 0.46000000834465027
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1003478978
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3: 84
Material 3 Desc: SILTY
Formation Top Depth: 0.46000000834465027
Formation End Depth: 1.4199999570846558
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1003478980
Layer:	5
Color:	
General Color:	
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	16
Material 2 Desc:	DOLOMITE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.899999976158142
Formation End Depth:	7.849999904632568
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003478983
Layer:	1
Plug From:	0.0
Plug To:	6.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003478984
Layer:	2
Plug From:	6.0
Plug To:	7.849999904632568
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003478989
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1003478975
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003478986
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	6.349999904632568
Casing Diameter:	3.5
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003478987
Layer: 1
Slot: 10
Screen Top Depth: 6.349999904632568
Screen End Depth: 7.849999904632568
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.099999904632568

Water Details

Water ID: 1003478985
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003478981
Diameter: 7.5
Depth From: 0.0
Depth To: 1.8799999952316284
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1003478982
Diameter: 5.699999809265137
Depth From: 1.8799999952316284
Depth To: 7.849999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

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36 ***1 of 1*** ***SSW/202.1*** ***82.2 / 0.31*** ***495 and 505 March Road and 11, 40, 50, 80 and 84 Hines Road, Ottawa, Ontario Kanata ON K2K*** ***EHS***

Order No: 20190916105
Status: C
Report Type: Custom Report
Report Date: 19-SEP-19
Date Received: 16-SEP-19
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.920977
Y: 45.343533

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37 ***1 of 1*** ***E/210.0*** ***79.0 / -2.92*** ***370-450 Huntmar Drive Ottawa ON*** ***EHS***

Order No: 21091500316
Status: C
Report Type: RSC Report - Quote

Nearest Intersection:
Municipality:
Client Prov/State: ON

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

Report Date:	20-SEP-21	**Search Radius (km):**	.3
Date Received:	15-SEP-21	**X:**	-75.91494054
Previous Site Name:		**Y:**	45.34558141
Lot/Building Size:			
Additional Info Ordered:			

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38 **1 of 33** **NE/213.9** **75.9 / -5.97** **525 Legget Drive**
Ottawa (Formerly Kanata) ON K2K 2W2 **EHS**

Order No:	20070627004	**Nearest Intersection:**	Terry Fox Drive and Legget Drive
Status:	C	**Municipality:**	Ottawa
Report Type:	CAN - Complete Report	**Client Prov/State:**	
Report Date:	7/6/2007	**Search Radius (km):**	0.25
Date Received:	6/27/2007	**X:**	-75.918152
Previous Site Name:		**Y:**	45.348691
Lot/Building Size:	4.55 Acre		
Additional Info Ordered:	City Directory		

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38 **2 of 33** **NE/213.9** **75.9 / -5.97** **BROOKSTREET**
525 LEGGET DRIVE
KANATA ON K2K 2W2 **GEN**

Generator No:	ON7945197
SIC Code:	721111
SIC Description:	Hotels
Approval Years:	2009
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	113
Waste Class Name:	ACID WASTE - OTHER METALS
Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	3 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON7945197
SIC Code: 721111
SIC Description: Hotels
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	4 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON7945197
SIC Code: 721111
SIC Description: Hotels
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

38	5 of 33	NE/213.9	75.9 / -5.97	**Sannoufi Medicine Professional Corporation** **525 Legget Dr. Suite 150** **Kanata ON K2K 2W2**	GEN

Generator No: ON8874529
SIC Code: 621110
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

38	6 of 33	NE/213.9	75.9 / -5.97	**Sannoufi Medicine Professional Corporation** **525 Legget Dr. Suite 150** **Kanata ON K2K 2W2**	GEN

Generator No: ON8874529
SIC Code: 621110
SIC Description: Offices of Physicians
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

38	7 of 33	NE/213.9	75.9 / -5.97	**BROOKSTREET** **525 LEGGET DRIVE** **KANATA ON K2K 2W2**	GEN

Generator No: ON7945197

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

SIC Code: 721111
SIC Description: Hotels
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

38	*8 of 33*	*NE/213.9*	*75.9 / -5.97*	***Sannoufi Medicine Professional Corporation*** ***525 Legget Dr. Suite 150*** ***Kanata ON***	***GEN***

Generator No: ON8874529
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

38	*9 of 33*	*NE/213.9*	*75.9 / -5.97*	***BROOKSTREET*** ***525 LEGGET DRIVE***	***GEN***

KANATA ON

Generator No: ON7945197
SIC Code: 721111
SIC Description: HOTELS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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38 | ***10 of 33*** | ***NE/213.9*** | ***75.9 / -5.97*** | ***Legget Drive Development Inc.***
515 and 525 Legget Dr
Ottawa ON K1P 6E2 | ***ECA***

Approval No: 3598-9STV8V
Approval Date: 2015-01-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Legget Drive Development Inc.

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Address:		515 and 525 Legget Dr			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/7005-9RARBH-14.pdf			
PDF Site Location:					

38	11 of 33	NE/213.9	75.9 / -5.97	**Dr. Charles Kamel, Professional Dentistry Corporat** **120 - 525 Legget Drive** **Kanata ON K2K 2W2**	GEN

Generator No:	ON6156175
SIC Code:	621390
SIC Description:	OFFICES OF ALL OTHER HEALTH PRACTITIONERS
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Janice Ho
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	613.599.2222 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES

38	12 of 33	NE/213.9	75.9 / -5.97	**Sannoufi Medicine Professional Corporation** **525 Legget Dr. Suite 150** **Kanata ON K2K2W2**	GEN

Generator No:	ON8874529
SIC Code:	621110
SIC Description:	OFFICES OF PHYSICIANS
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Reham Sannoufi
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	6135920862 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES

38	13 of 33	NE/213.9	75.9 / -5.97	**BROOKSTREET** **525 LEGGET DRIVE** **KANATA ON K2K 2W2**	GEN

Generator No:	ON7945197
SIC Code:	721111
SIC Description:	HOTELS
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	

Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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38 | ***14 of 33*** | ***NE/213.9*** | ***75.9 / -5.97*** | ***Sannoufi Medicine Professional Corporation***
525 Legget Dr. Suite 150
Kanata ON K2K2W2 | ***GEN***

Generator No: ON8874529
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Reham Sannoufi
Choice of Contact: CO_OFFICIAL
Phone No Admin: 6135920862 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	15 of 33	NE/213.9	75.9 / -5.97	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN

Generator No: ON6156175
SIC Code: 621390
SIC Description: OFFICES OF ALL OTHER HEALTH PRACTITIONERS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Janice Ho
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613.599.2222 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	16 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON7945197
SIC Code: 721111
SIC Description: HOTELS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	17 of 33	NE/213.9	75.9 / -5.97	Sannoufi Medicine Professional Corporation 525 Legget Dr. Suite 150 Kanata ON K2K2W2	GEN

Generator No: ON8874529
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Reham Sannoufi
Choice of Contact: CO_OFFICIAL
Phone No Admin: 6135920862 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	18 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON7945197
SIC Code: 721111
SIC Description: HOTELS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	19 of 33	NE/213.9	75.9 / -5.97	Sannoufi Medicine Professional Corporation 525 Legget Dr. Suite 150 Kanata ON K2K2W2	GEN

Generator No: ON8874529
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	20 of 33	NE/213.9	75.9 / -5.97	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN

Generator No: ON6156175
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

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38 | ***21 of 33*** | ***NE/213.9*** | ***75.9 / -5.97*** | ***BROOKSTREET***
525 LEGGET DRIVE
KANATA ON K2K 2W2 | ***GEN***

Generator No: ON7945197
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 R
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

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38 | ***22 of 33*** | ***NE/213.9*** | ***75.9 / -5.97*** | ***La Vie Medial Inc.***
525 Legget Dr. Suite 150
Kanata ON K2K2W2 | ***GEN***

Generator No: ON8874529

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

SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	23 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON7945197
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 R
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		112 C			
Waste Class Name:		Acid solutions - containing heavy metals			
Waste Class:		146 T			
Waste Class Name:		Other specified inorganic sludges, slurries or solids			
38	24 of 33	NE/213.9	75.9 / -5.97	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN
Generator No:		ON6156175			
SIC Code:					
SIC Description:					
Approval Years:		As of Jul 2020			
PO Box No:					
Country:		Canada			
Status:		Registered			
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		312 P			
Waste Class Name:		Pathological wastes			
38	25 of 33	NE/213.9	75.9 / -5.97	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN
Generator No:		ON6156175			
SIC Code:					
SIC Description:					
Approval Years:		As of Nov 2021			
PO Box No:					
Country:		Canada			
Status:		Registered			
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		312 P			
Waste Class Name:		Pathological wastes			
38	26 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN
Generator No:		ON7945197			
SIC Code:					
SIC Description:					
Approval Years:		As of Nov 2021			
PO Box No:					
Country:		Canada			

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 263 R
Waste Class Name: Misc. waste organic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	27 of 33	NE/213.9	75.9 / -5.97	La Vie Medial Inc. 525 Legget Dr. Suite 150 Kanata ON K2K2W2	GEN

Generator No: ON8874529
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	28 of 33	NE/213.9	75.9 / -5.97	La Vie Medial Inc. 525 Legget Dr. Suite 150 Kanata ON K2K2W2	GEN

Generator No: ON8874529
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
38	29 of 33	NE/213.9	75.9 / -5.97	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator No: ON7945197
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 R
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 113 C
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

38	30 of 33	NE/213.9	75.9 / -5.97	**Dr. Charles Kamel, Professional Dentistry Corporat** **120 - 525 Legget Drive** **Kanata ON K2K 2W2**	GEN

Generator No: ON6156175
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

38	31 of 33	NE/213.9	75.9 / -5.97	**La Vie Medial Inc.** **525 Legget Dr. Suite 150** **Kanata ON K2K2W2**	GEN

Generator No: ON8874529
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

38	32 of 33	NE/213.9	75.9 / -5.97	**Wesley Clover International Corporation** **525 Legget Dr 359 Terry Fox Drive** **Ottawa ON K2K 0G7**	ECA

Approval No: 8158-CMASST **MOE District:** Ottawa

Approval Date:	January 18, 2023	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	-8451369.0618999992
SWP Area Name:	Mississippi Valley	**Geometry Y:**	5676467.7039000001
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Wesley Clover International Corporation		
Address:	525 Legget Dr 359 Terry Fox Drive		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8715-CLNL66-14.pdf		
PDF Site Location:	Brookstreet Apartments Part of Lot 8, Concession 4 City of Ottawa, Ontario		

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38 | ***33 of 33*** | ***NE/213.9*** | ***75.9 / -5.97*** | ***525 LeGget Drive, Ottawa K2K2W2 OTTAWA ON*** | ***SPL***

Ref No:	1-33Q10G	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:		**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	3/27/2023 9:10:15 AM	**Impact to Health:**	0 No Impact
Dt Document Closed:	3/28/2023 9:24:05 AM	**Agency Involved:**	
Site No:			
MOE Response:	Desktop Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:	Ottawa District Office		
Nearest Watercourse:	cb		
Site Name:			
Site Address:	525 LeGget Drive, Ottawa K2K2W2		
Site Region:			
Site Municipality:	OTTAWA		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:			
Incident Preceding Spill:			
Environment Impact:	0 No Impact		
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	0 other - see notes		
System Facility Address:			
Client Name:			
Client Type:			
Source Type:	Motor Vehicle		
Contaminant Code:			
Contaminant Name:	DIESEL FUEL		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	Land; Surface Water		
Incident Reason:	Unknown		
Incident Summary:	City of Ottawa - unk. amt. diesel to private cb		
Activity Preceding Spill:			
Property 2nd Watershed:	Lower Ottawa		
Property Tertiary Watershed:	02KE - Lower Madawaska		
Sector Type:	HOTELS		
SAC Action Class:			
Call Report Locatn Geodata:	{"integration_ids":["PR00003970127"],"wkts":["POINT (-75.9182498000 45.3482179000)"],"creation_date":"2023-		

03-27"}

39 | **1 of 1** | **WNW/214.1** | **84.9 / 3.03** | **603 March Road lot 9 con 3 Kanata ON** | **WWIS**

Well ID:	7405255	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	12/08/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	6EE4U64B	**Contractor:**	7675
Tag:	A311084	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008876745	**Tag No:**	A311084
Depth M:	7.62	**Contractor:**	7675
Year Completed:	2021	**Latitude:**	45.3477055937838
Well Completed Dt:	11/18/2021	**Longitude:**	-75.9245681939739
Audit No:	6EE4U64B	**Y:**	45.34770558722818
Path:		**X:**	-75.92456803304529

Bore Hole Information

Bore Hole ID:	1008876745	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427572.00
Code OB Desc:		**North83:**	5021993.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/18/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008876895
Layer:	1
Color:	
General Color:	

Material 1:
Material 1 Desc:
Material 2: 02
Material 2 Desc: TOPSOIL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008876896
Layer: 2
Color:
General Color:
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877021
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877022
Layer: 2
Plug From: 1.0
Plug To: 14.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877023
Layer: 3
Plug From: 14.0
Plug To: 25.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008876989
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	1008876823
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1008876794
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008876925
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	15.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008876946
Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008876795
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID: 1008876856
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 21.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1008876968
Diameter: 8.0
Depth From: 0.0
Depth To: 3.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1008876969
Diameter: 4.0
Depth From: 3.0
Depth To: 25.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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40 | **1 of 21** | **SE/217.5** | **79.8 / -2.03** | **LOCKHEED CANADA INC.**
3001 SOLANDT ROAD
KANATA CITY ON K2K 2M8 | **CA**

Certificate #: 8-4021-94-
Application Year: 94
Issue Date: 4/14/1994
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: DF-6218 DEVILBISS PAINT SPRAY BOOTH
Contaminants:
Emission Control:

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40 | **2 of 21** | **SE/217.5** | **79.8 / -2.03** | **LOCKHEED CANADA INC.**
3001 SOLANDT ROAD
KANATA CITY ON K2K 2M8 | **CA**

Certificate #: 8-4029-94-
Application Year: 94
Issue Date: 4/21/1994
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: EXHAUST FOR SPRAY BOOTH, COATING PROCESS
Contaminants: Xylene, Ethyl Benzene, Toluene(Pentyl Methane)(Methyl Benzene), Methyl Ethyl Ketone (Butanone), Isopropyl Alcohol, Methyl Chloroform
Emission Control: Panel Filter

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
40	3 of 21	SE/217.5	79.8 / -2.03	LOCKHEED MARTIN CANADA INC 3001 SOLANDT RD KANATA ON K2K 2M8	SCT

Established: 1988
Plant Size (ft²): 0
Employment: 300

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
40	4 of 21	SE/217.5	79.8 / -2.03	Lockheed Martin Canada Inc. 3001 Solandt Rd Kanata ON K2K 2M8	SCT

Established: 01-AUG-88
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
40	5 of 21	SE/217.5	79.8 / -2.03	3001 Solandt Road Kanata ON K2K 2M8	CA

Certificate #: 6668-4J6PK6
Application Year: 00
Issue Date: 5/12/00
Approval Type: Industrial air
Status: Approved
Application Type: Amended CofA
Client Name: Lockheed Martin Canada Inc.
Client Address: 3001 Solandt Road
Client City: Kanata
Client Postal Code: K2K 2M8
Project Description: This is an application for an amendment to Air Certificate of Approval to add one conformal coater, one oven and one drip coater to be used between 2 - 3 hours per week..
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
40	6 of 21	SE/217.5	79.8 / -2.03	LOCKHEED MARTIN CANADA 3001 SOLANDT ROAD KANATA ON K2K 2M8	GEN

Generator No: ON0476102
SIC Code: 3359
SIC Description: OTHER COMMUN. & ELE.
Approval Years: 95,96,97,98,99,00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

40	7 of 21	SE/217.5	79.8 / -2.03	LOCKHEED MARTIN CANADA 3001 SOLANDT ROAD KANATA ON K2K 2M8	GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2009
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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40 | ***8 of 21*** | ***SE/217.5*** | ***79.8 / -2.03*** | ***Lockheed Martin Canada Inc.***
3001 Solandt Road
Ottawa ON K2K 2M8 | ***EBR***

EBR Registry No: 011-8066
Ministry Ref No: 0853-93TR59
Notice Type: Instrument Proposal
Notice Stage:
Notice Date:
Proposal Date: January 28, 2013
Year: 2013
Instrument Type: (EPA Part II.1) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name:
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3001 Solandt Road Ottawa Ontario Canada K2K 2M8
Comment Period:
URL:

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

Site Location Details:

3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
40	9 of 21	SE/217.5	79.8 / -2.03	LOCKHEED MARTIN CANADA 3001 SOLANDT ROAD KANATA ON K2K 2M8	GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Name: AMINES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
40	10 of 21	SE/217.5	79.8 / -2.03	LOCKHEED MARTIN CANADA 3001 SOLANDT ROAD KANATA ON K2K 2M8	GEN

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

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40 ***11 of 21*** ***SE/217.5*** ***79.8 / -2.03*** ***MORGUARD INVESTMENTS LTD.***
3001 SOLANDT STREET
KANATA ON ***GEN***

Generator No: ON9884765
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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40 ***12 of 21*** ***SE/217.5*** ***79.8 / -2.03*** ***LOCKHEED MARTIN CANADA***
3001 SOLANDT ROAD
KANATA ON K2K 2M8 ***GEN***

Generator No: ON0476102
SIC Code: 336410
SIC Description: Aerospace Product and Parts Manufacturing
Approval Years: 2012

PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

40	13 of 21	SE/217.5	79.8 / -2.03	Lockheed Martin Canada Inc. 3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA ON	EBR

EBR Registry No: 011-8066
Ministry Ref No: 0853-93TR59
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 11, 2014
Proposal Date: January 28, 2013
Year: 2013
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lockheed Martin Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3001 Solandt Road, Ottawa Ontario, Canada K2K 2M8
Comment Period:
URL:

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

Site Location Details:

3001 Solandt Road Ottawa K2K 2M8 CITY OF OTTAWA

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40 | ***14 of 21*** | ***SE/217.5*** | ***79.8 / -2.03*** | ***Lockheed Martin Canada Inc.*** ***3001 Solandt Road*** ***Ottawa ON*** | ***ECA***

Approval No:	3445-9FMN4B	***MOE District:***	
Approval Date:	4/2/14	***City:***	Ottawa
Status:	Approved	***Longitude:***	-75.916666666666671403618238400667905807495117187 5
Record Type:		***Latitude:***	45.344166666666666287710540927946567535400390625
Link Source:		***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:			
Project Type:	Air/Noise		
Business Name:	Lockheed Martin Canada Inc.		
Address:			
Full Address:	3001 Solandt Road Ottawa, Ontario		
Full PDF Link:			
PDF Site Location:			

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40 | ***15 of 21*** | ***SE/217.5*** | ***79.8 / -2.03*** | ***3001 Solandt Road*** ***Kanata ON*** | ***EHS***

Order No:	20130513003	***Nearest Intersection:***	
Status:	C	***Municipality:***	Kanata
Report Type:	RSC Report (Urban)	***Client Prov/State:***	ON
Report Date:	21-MAY-13	***Search Radius (km):***	.3
Date Received:	13-MAY-13	***X:***	-75.916515
Previous Site Name:	unknown	***Y:***	45.344055
Lot/Building Size:	5.13 acres		
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		

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40 | ***16 of 21*** | ***SE/217.5*** | ***79.8 / -2.03*** | ***LOCKHEED MARTIN CANADA*** ***3001 SOLANDT ROAD*** ***KANATA ON*** | ***GEN***

Generator No:	ON0476102
SIC Code:	336410
SIC Description:	AEROSPACE PRODUCT AND PARTS MANUFACTURING
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	263

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

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40 | **17 of 21** | **SE/217.5** | **79.8 / -2.03** | **Lockheed Martin Canada Inc.**
3001 Solandt Rd
Ottawa ON K2K 2M8 | **ECA**

Approval No: 3445-9FMN4B
Approval Date: 2014-04-02
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0853-93TR59-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:

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40 | **18 of 21** | **SE/217.5** | **79.8 / -2.03** | **Lockheed Martin Canada Inc.**
3001 Solandt Road
Kanata ON K2K 2M8 | **ECA**

Approval No: 6668-4J6PK6
Approval Date: 2000-05-12
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley

MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:

Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3170-4J4J43-14.pdf
PDF Site Location:

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40 | **19 of 21** | **SE/217.5** | **79.8 / -2.03** | **Lockheed Martin Canada Inc.**
3001 Solandt Rd
Ottawa ON K2K 2M8 | **ECA**

Approval No: 0118-78PQ7X
Approval Date: 2007-11-07
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.91657
Latitude: 45.34411
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lockheed Martin Canada Inc.
Address: 3001 Solandt Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0986-77LRAX-14.pdf
PDF Site Location:

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40 | **20 of 21** | **SE/217.5** | **79.8 / -2.03** | **LOCKHEED MARTIN CANADA**
3001 SOLANDT ROAD
KANATA ON K2K 2M8 | **GEN**

Generator No: ON0476102
SIC Code: 336410
SIC Description: AEROSPACE PRODUCT AND PARTS MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Scott D Forsyth
Choice of Contact: CO_ADMIN
Phone No Admin: 613-599-3270 Ext.3887
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

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

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 211

Waste Class Name:	AROMATIC SOLVENTS
Waste Class:	268
Waste Class Name:	AMINES
Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS

40 | ***21 of 21*** | ***SE/217.5*** | ***79.8 / -2.03*** | ***Morguard Investments***
3001 Solandt Rd
Kanata ON K2K 3M8 | ***GEN***

Generator No:	ON3300096
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2017
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues

41 | ***1 of 1*** | ***WNW/218.0*** | ***84.9 / 3.03*** | ***603 March Road lot 9 con 3***
Kanata ON | ***WWIS***

Well ID:	7408598	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Quality	**Date Received:**	01/18/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	8ILZVA2F	**Contractor:**	7675
Tag:	A311033	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009

Depth to Bedrock:		***Concession:***	03
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7408598.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/23/2021
Year Completed:	2021
Depth (m):	12.4968
Latitude:	45.3476599727864
Longitude:	-75.9246440432785
X:	-75.9246438813768
Y:	45.347659966719085
Path:	740\7408598.pdf

Bore Hole Information

Bore Hole ID:	1008930837	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427566.00
Code OB Desc:		***North83:***	5021988.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	12/23/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008930977
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	18
Material 2 Desc:	SANDSTONE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	41.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008930976

Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931076
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931097
Layer: 1
Plug From: 0.0
Plug To: 29.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931098
Layer: 2
Plug From: 29.0
Plug To: 41.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008930935
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1008930896
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008931008
Layer: 1
Material: 5
Open Hole or Material: PLASTIC

Depth From:	0.0
Depth To:	31.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008931028
Layer:	1
Slot:	10
Screen Top Depth:	31.0
Screen End Depth:	41.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008930897
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008931049
Diameter:	8.0
Depth From:	0.0
Depth To:	2.5
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1008931050
Diameter:	4.0
Depth From:	2.5
Depth To:	41.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

42	*1 of 2*	*SW/223.2*	*83.9 / 2.03*	***COLONNADE DEVELOPMENT INC.*** ***60 HINES RD., PH. 1, SWM*** ***KANATA ON K2K 2M5***	*CA*

Certificate #:	3-1606-98-
Application Year:	98

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

Issue Date:	10/26/1998
Approval Type:	Municipal sewage
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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42 | **2 of 2** | **SW/223.2** | **83.9 / 2.03** | **COLONNADE DEVELOPMENT INC.**
SWM-60 HINES RD.PH.2
KANATA ON K2K 2M5 | **CA**

Certificate #:	3-1697-98-
Application Year:	98
Issue Date:	11/5/1998
Approval Type:	Municipal sewage
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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43 | **1 of 19** | **SSE/227.1** | **80.8 / -1.08** | **495 March Road**
Kanata ON K2K 3G1 | **CA**

Certificate #:	5602-4STJ67
Application Year:	01
Issue Date:	1/29/01
Approval Type:	Industrial air
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	E-Cruiter.com Inc.
Client Address:	495 March Road
Client City:	Kanata
Client Postal Code:	K2K 3G1
Project Description:	This application is for the installation of one (1) standby emergency diesel generator
Contaminants:	
Emission Control:	Enclosure

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43 | **2 of 19** | **SSE/227.1** | **80.8 / -1.08** | **Picarro Canada Inc.**
495 March Road, Suite 100 Ottawa Ontario K2K 3G1 Ottawa
ON | **EBR**

EBR Registry No:	IA02E1500	**Decision Posted:**	
Ministry Ref No:	2565-5G5SFJ	**Exception Posted:**	
Notice Type:	Instrument Decision	**Section:**	
Notice Stage:		**Act 1:**	
Notice Date:	April 07, 2003	**Act 2:**	
Proposal Date:	November 28, 2002	**Site Location Map:**	
Year:	2002		
Instrument Type:	(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)		

Off Instrument Name:
Posted By:
Company Name: Picarro Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 495 March Road, Suite 200, Ottawa Ontario, K2K 3G1
Comment Period:
URL:

Site Location Details:

495 March Road, Suite 100 Ottawa Ontario K2K 3G1 Ottawa

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43 | ***3 of 19*** | ***SSE/227.1*** | ***80.8 / -1.08*** | ***PICARRO CANADA INC.***
495 MARCH RD SUITE 200
OTTAWA ON K2K 3G1 | ***GEN***

Generator No: ON5245042
SIC Code: 334110
SIC Description: Computer and Peripheral Equipment Manufacturing
Approval Years: 04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

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43 | ***4 of 19*** | ***SSE/227.1*** | ***80.8 / -1.08*** | ***PICARRO CANADA INC.***
495 MARCH RD SUITE 200
OTTAWA ON K2K 3G1 | ***GEN***

Generator No: ON5245042
SIC Code: 334110
SIC Description: Computer and Peripheral Equipment Manufacturing
Approval Years: 05
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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43 | ***5 of 19*** | ***SSE/227.1*** | ***80.8 / -1.08*** | ***Dinmar Consulting Inc.***
495 March Rd Suite 400
Kanata ON K2K 3G1 | ***SCT***

Established:
Plant Size (ft²):
Employment: 65

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

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

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43 | ***6 of 19*** | ***SSE/227.1*** | ***80.8 / -1.08*** | ***Halogen Software***
495 March Rd Suite 500
Ottawa ON K2K 3G1 | ***SCT***

Established: 2001
Plant Size (ft²):
Employment: 80

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

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43 | ***7 of 19*** | ***SSE/227.1*** | ***80.8 / -1.08*** | ***NEWPORT INSTRUMENTS CANADA CORP***
495 MARCH RD SUITE 200
OTTAWA ON | ***GEN***

Generator No: ON5245042
SIC Code: 334110
SIC Description: Computer and Peripheral Equipment Manufacturing
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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

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43 | ***8 of 19*** | ***SSE/227.1*** | ***80.8 / -1.08*** | ***Picarro Canada Inc.***
495 March Road, Suite 100
Ottawa ON | ***CA***

Certificate #: 2879-5L425B
Application Year: 2003
Issue Date: 4/5/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:

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

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
43	9 of 19	SSE/227.1	80.8 / -1.08	OneChip Photonics Inc. 495 March Rd Suite 200 Kanata ON K2K 3G1	SCT

Established: 01-AUG-05
Plant Size (ft²): 30000
Employment:

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
43	10 of 19	SSE/227.1	80.8 / -1.08	Halogen Software 495 March Rd Suite 500 Kanata ON K2K 3G1	SCT

Established: 01-SEP-01
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
43	11 of 19	SSE/227.1	80.8 / -1.08	NEWPORT INSTRUMENTS CANADA CORP 495 MARCH RD SUITE 200 OTTAWA ON	GEN

Generator No: ON5245042
SIC Code: 334110
SIC Description: Computer and Peripheral Equipment Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

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

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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

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43 | **12 of 19** | **SSE/227.1** | **80.8 / -1.08** | **OneChip Photonics**
495 March Rd. Suite 200
Ottawa ON K2K 3G1 | **GEN**

Generator No: ON9927536
SIC Code: 334290
SIC Description: Other Communications Equipment Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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43 | **13 of 19** | **SSE/227.1** | **80.8 / -1.08** | **OneChip Photonics**
495 March Rd. Suite 200
Ottawa ON K2K 3G1 | **GEN**

Generator No: ON9927536
SIC Code: 334290
SIC Description: Other Communications Equipment Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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43 | **14 of 19** | **SSE/227.1** | **80.8 / -1.08** | **OneChip Photonics**
495 March Rd. Suite 200
Ottawa ON K2K 3G1 | **GEN**

Generator No: ON9927536
SIC Code: 334290

SIC Description: Other Communications Equipment Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

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43 | **15 of 19** | **SSE/227.1** | **80.8 / -1.08** | **495 March Rd**
Ottawa ON K2K3G1 | **EHS**

Order No: 20140130001
Status: C
Report Type: Custom Report
Report Date: 05-FEB-14
Date Received: 30-JAN-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.920838
Y: 45.343452

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43 | **16 of 19** | **SSE/227.1** | **80.8 / -1.08** | **OneChip Photonics**
495 March Rd. Suite 150
Ottawa ON | **GEN**

Generator No: ON9927536
SIC Code: 334290
SIC Description: OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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43 | **17 of 19** | **SSE/227.1** | **80.8 / -1.08** | **Picarro Canada Inc.**
495 March Road, Suite 100 | **ECA**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Ottawa ON K2K 3G1	

Approval No: 2879-5L425B
Approval Date: 2003-04-05
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Picarro Canada Inc.
Address: 495 March Road, Suite 100
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2565-5G5SFJ-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.9194
Latitude: 45.34321
Geometry X:
Geometry Y:

43	18 of 19	SSE/227.1	80.8 / -1.08	**E-Cruiter.com Inc.** **495 March Road** **Kanata ON K2K 3G1**	ECA

Approval No: 5602-4STJ67
Approval Date: 2001-01-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: E-Cruiter.com Inc.
Address: 495 March Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8153-4R9MS8-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.9194
Latitude: 45.34321
Geometry X:
Geometry Y:

43	19 of 19	SSE/227.1	80.8 / -1.08	**OneChip Photonics** **495 March Rd. Suite 150** **Ottawa ON K2K 3G1**	GEN

Generator No: ON9927536
SIC Code: 334290
SIC Description: OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Rick Scholes
Choice of Contact: CO_OFFICIAL
Phone No Admin: 613-2870251 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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44 **1 of 1** **WNW/232.8** **84.9 / 3.00** **603 March Road lot 9 con 3 Kanata ON** **WWIS**

Well ID: 7408597
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: HODUQWS8
Tag: A311032
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/18/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7408597.pdf

Additional Detail(s) (Map)

Well Completed Date: 12/20/2021
Year Completed: 2021
Depth (m): 7.9248
Latitude: 45.3476493190455
Longitude: -75.9248481152685
X: -75.92484795338989
Y: 45.34764931225576
Path: 740\7408597.pdf

Bore Hole Information

Bore Hole ID: 1008930834
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/20/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 427550.00
North83: 5021987.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	1008930974
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	12
Material 2 Desc:	STONES
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008930975
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	18
Material 2 Desc:	SANDSTONE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	2.5
Formation End Depth:	26.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008931075
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008931095
Layer:	1
Plug From:	0.0
Plug To:	14.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008931096
Layer:	2
Plug From:	14.0
Plug To:	26.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008930934
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1008930894
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008931007
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	16.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008931027
Layer:	1
Slot:	10
Screen Top Depth:	16.0
Screen End Depth:	26.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008930895
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008931048

Diameter: 4.0
Depth From: 2.5
Depth To: 26.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1008931047
Diameter: 8.0
Depth From: 0.0
Depth To: 2.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

45 | **1 of 1** | **WNW/233.0** | **83.8 / 1.92** | **603 March Road lot 9 con 3 Kanata ON** | **WWIS**

Well ID: 7408602
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: 7WVDGZIG
Tag: A311095
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/18/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7408602.pdf

Additional Detail(s) (Map)

Well Completed Date: 12/20/2021
Year Completed: 2021
Depth (m): 7.62
Latitude: 45.3478662540623
Longitude: -75.92473675977
X: -75.92473659824563
Y: 45.347866247411524
Path: 740\7408602.pdf

Bore Hole Information

Bore Hole ID: 1008930849
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/20/2021

Elevation:
Elevrc:
Zone: 18
East83: 427559.00
North83: 5022011.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m

Remarks: ***Location Method:*** wwr
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008930984
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008930985
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 18
Material 2 Desc: SANDSTONE
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 2.5
Formation End Depth: 25.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931106
Layer: 2
Plug From: 13.0
Plug To: 25.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931105
Layer: 1
Plug From: 0.0
Plug To: 13.0
Plug Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1008931080
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008930939
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1008930904
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008931012
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	15.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008931032
Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008930905
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	

Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008931057
Diameter: 8.0
Depth From: 0.0
Depth To: 2.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1008931058
Diameter: 4.0
Depth From: 2.5
Depth To: 25.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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46 | ***1 of 1*** | ***NNE/239.3*** | ***75.9 / -6.02*** | ***359 Terry Fox Drive Ottawa ON Kanata ON K2K 2E7*** | ***EHS***

Order No: 23051200570
Status: C
Report Type: Standard Report
Report Date: 17-MAY-23
Date Received: 12-MAY-23
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.9182356
Y: 45.3496378

---

47 | ***1 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***NEWBRIDGE NETWORKS CORPORATION 359 TERRY FOX DRIVE KANATA CITY ON K2K 2E7*** | ***CA***

Certificate #: 8-4102-88-
Application Year: 88
Issue Date: 1/24/1990
Approval Type: Industrial air
Status: Approved in 1990
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: CIRCUIT BOARD MANUF. EXHAUST
Contaminants:
Emission Control:

---

47 | ***2 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***ELCOMBE SYSTEMS LIMITED 359 TERRY FOX DR KANATA ON K2K 2E7*** | ***SCT***

Established: 1991
Plant Size (ft²): 0
Employment: 25

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

--Details--
Description: COMMUNICATIONS EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3669

Description: Other Communications Equipment Manufacturing
SIC/NAICS Code: 334290

---

47 | ***3 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***359 Terry Fox Drive Kanata ON K2K 2E7*** | ***CA***

Certificate #: 8-4102-88-906
Application Year: 01
Issue Date: 4/6/01
Approval Type: Industrial air
Status: Approved
Application Type: Revocation
Client Name: Newbridge Networks Corporation
Client Address: 600 March Road, P.O. Box 13600
Client City: Kanata
Client Postal Code: K2K 2E6
Project Description: Removal of exhaust six (6) exhaust fans venting facilities for manufacturing electronic circuits.
Contaminants:
Emission Control:

---

47 | ***4 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***NEWBRIDGE NETWORKS CORPORATION 359 TERRY FOX DRIVE KANATA ON K2K 2E7*** | ***GEN***

Generator No: ON1052000
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 88,89,90
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

47 | ***5 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***NEWBRIDGE NETWORKS CORPORATION 28-523 359 TERRY FOX DRIVE KANATA ON K2K 2E7*** | ***GEN***

Generator No: ON1052000
SIC Code: 3351
SIC Description: TELECOMMUNICATIONS
Approval Years: 94,95,96
PO Box No:

Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

47 | ***6 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***359 Terry Fox Drive Ottawa ON*** | ***EHS***

Order No: 20070213030
Status: C
Report Type: CAN - Complete Report
Report Date: 2/15/2007
Date Received: 2/13/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -75.919083
Y: 45.349895

---

47 | ***7 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***Smart Technologies Inc. 359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa ON*** | ***EBR***

EBR Registry No: IA05E1750
Ministry Ref No: 6235-6HCPAA
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 23, 2007
Proposal Date: November 15, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Smart Technologies Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 359 Terry Fox Drive, Ottawa Ontario, K2K 2E7
Comment Period:
URL:

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

Site Location Details:

359 Terry Fox Drive Ottawa Ontario K2K 2E7 Ottawa

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	8 of 23	NNE/239.7	75.9 / -6.02	359 Terry Fox Drive Ottawa ON	EHS

Order No:	20080211010	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Complete Report	**Client Prov/State:**	ON
Report Date:	2/20/2008	**Search Radius (km):**	0.25
Date Received:	2/11/2008	**X:**	-75.919083
Previous Site Name:		**Y:**	45.349895
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	9 of 23	NNE/239.7	75.9 / -6.02	Smart Technologies Inc 359 Terry Fox Drive - North Kanata ON	GEN

Generator No:	ON3214080
SIC Code:	334290
SIC Description:	Other Communications Equipment Manufacturing
Approval Years:	06,07,08
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS
Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	232
Waste Class Name:	POLYMERIC RESINS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	10 of 23	NNE/239.7	75.9 / -6.02	Smart Technologies Inc. 359 Terry Fox Drive Ottawa ON	CA

Certificate #: 2247-6UXHQW
Application Year: 2007
Issue Date: 1/4/2007
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

47 | ***11 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***Kanata Research Park Corporation*** ***359 Terry Fox Drive*** ***Ottawa ON*** | ***CA***

Certificate #: 6748-5HTUE5
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

47 | ***12 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***Sciemetric Instruments Inc.*** ***359 Terry Fox Dr*** ***Kanata ON K2K 2E7*** | ***SCT***

Established: 01-JUN-81
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

47 | ***13 of 23*** | ***NNE/239.7*** | ***75.9 / -6.02*** | ***Pleora Technologies Inc.*** ***359 Terry Fox Dr Unit 230*** ***Kanata ON K2K 2E7*** | ***SCT***

Established:
Plant Size (ft²):
Employment:

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

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

---

47 ***14 of 23*** ***NNE/239.7*** ***75.9 / -6.02*** ***Smart Technologies Inc.***
359 Terry Fox Drive
Ottawa ON K2K 2E7 ***ECA***

Approval No: 2247-6UXHQW
Approval Date: 2007-01-04
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Smart Technologies Inc.
Address: 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6235-6HCPAA-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.9184
Latitude: 45.349728
Geometry X:
Geometry Y:

---

47 ***15 of 23*** ***NNE/239.7*** ***75.9 / -6.02*** ***Kanata Research Park Corporation***
359 Terry Fox Drive
Ottawa ON K2K 2X3 ***ECA***

Approval No: 6748-5HTUE5
Approval Date: 2003-01-18
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2480-5DXNRZ-14.pdf
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.9184
Latitude: 45.349728
Geometry X:
Geometry Y:

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47 ***16 of 23*** ***NNE/239.7*** ***75.9 / -6.02*** ***Electronic Distributors International Inc.***
359 Terry Fox Drive Suite 110
Ottawa ON K2K 2E7 ***GEN***

Generator No: ON3467371
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:

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

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	17 of 23	NNE/239.7	75.9 / -6.02	***Public Health Agency of Canada - Kanata*** ***359 Terry Fox Drive*** ***Kanata ON K2K2E7***	GEN

Generator No: ON7174371
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 H
Waste Class Name: Pharmaceuticals

Waste Class: 261 L
Waste Class Name: Pharmaceuticals

Waste Class: 263 A
Waste Class Name: Misc. waste organic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	18 of 23	NNE/239.7	75.9 / -6.02	***Electronic Distributors International Inc.*** ***359 Terry Fox Drive Suite 110*** ***Ottawa ON K2K 2E7***	GEN

Generator No: ON3467371
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

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

MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

47	***19 of 23***	***NNE/239.7***	***75.9 / -6.02***	***Public Health Agency of Canada - Kanata NESS*** ***359 Terry Fox Drive*** ***Kanata ON K2K2E7***	***GEN***

Generator No: ON7174371
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 H
Waste Class Name: Pharmaceuticals

Waste Class: 261 L
Waste Class Name: Pharmaceuticals

Waste Class: 263 A
Waste Class Name: Misc. waste organic chemicals

47	***20 of 23***	***NNE/239.7***	***75.9 / -6.02***	***Public Health Agency of Canada - Kanata NESS*** ***359 Terry Fox Drive*** ***Kanata ON K2K2E7***	***GEN***

Generator No: ON7174371
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

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

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 A
Waste Class Name: Misc. waste organic chemicals

Waste Class: 261 H
Waste Class Name: Pharmaceuticals

Waste Class: 261 L
Waste Class Name: Pharmaceuticals

47	21 of 23	NNE/239.7	75.9 / -6.02	***Electronic Distributors International Inc.*** ***359 Terry Fox Drive Suite 110*** ***Ottawa ON K2K 2E7***	GEN

Generator No: ON3467371
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 262 L
Waste Class Name: Detergents and soaps

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

47	22 of 23	NNE/239.7	75.9 / -6.02	***Electronic Distributors International Inc.***	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				359 Terry Fox Drive Suite 110 **Ottawa ON K2K 2E7**	

Generator No: ON3467371
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 262 L
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

47	***23 of 23***	***NNE/239.7***	***75.9 / -6.02***	***Public Health Agency of Canada - Kanata NESS*** ***359 Terry Fox Drive*** ***Kanata ON K2K2E7***	***GEN***

Generator No: ON7174371
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 H
Waste Class Name: PHARMACEUTICALS

Waste Class: 261 L
Waste Class Name: PHARMACEUTICALS

Waste Class: 263 A
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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48 | **1 of 2** | **N/245.3** | **77.9 / -4.00** | **INSTANTEL INC.**
362 TERRY FOX DR
KANATA ON K2K 2P5 | **SCT**

Established: 1982
Plant Size (ft²): 1200
Employment: 50

--Details--
Description: MEASURING AND CONTROLLING DEVICES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3829

Description: SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS
SIC/NAICS Code: 3841

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48 | **2 of 2** | **N/245.3** | **77.9 / -4.00** | **Coyle Publishing Inc.**
362 Terry Fox Dr Suite 220
Kanata ON K2K 2P5 | **SCT**

Established: 01-JAN-88
Plant Size (ft²): 1000
Employment:

--Details--
Description: Periodical Publishers
SIC/NAICS Code: 511120

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49 | **1 of 1** | **WNW/247.7** | **84.9 / 3.00** | **603 March Road lot 9 con 3**
Kanata ON | **WWIS**

Well ID:	7408603	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Quality	**Date Received:**	01/18/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	UQQCO2AD	**Contractor:**	7675
Tag:	A311096	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7408603.pdf

Additional Detail(s) (Map)

Well Completed Date: 12/21/2021
Year Completed: 2021
Depth (m): 12.192
Latitude: 45.3476928729089
Longitude: -75.9250275394978
X: -75.92502737743176
Y: 45.34769286641409
Path: 740\7408603.pdf

Bore Hole Information

Bore Hole ID: 1008930852
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/21/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 427536.00
North83: 5021992.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008930987
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2: 18
Material 2 Desc: SANDSTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 2.5
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008930986
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 12
Material 2 Desc: STONES
Material 3:

Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.5
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931108
Layer: 2
Plug From: 28.0
Plug To: 40.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931081
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931107
Layer: 1
Plug From: 0.0
Plug To: 28.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008930940
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1008930906
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008931013
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 30.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008931033
Layer: 1
Slot: 10
Screen Top Depth: 30.0
Screen End Depth: 40.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1008930907
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1008931059
Diameter: 8.0
Depth From: 0.0
Depth To: 2.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1008931060
Diameter: 4.0
Depth From: 2.5
Depth To: 40.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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50 | ***1 of 1*** | ***WNW/249.3*** | ***83.6 / 1.69*** | ***603 March Road lot 9 con 3 Kanata ON*** | ***WWIS***

Well ID: 7408601
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: AJ9OF2QF
Tag: A311094
Constructn Method:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/18/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:

Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7408601.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/22/2021
Year Completed:	2021
Depth (m):	12.192
Latitude:	45.3483536083524
Longitude:	-75.9245787445053
X:	-75.92457858369949
Y:	45.348353601611706
Path:	740\7408601.pdf

Bore Hole Information

Bore Hole ID:	1008930846	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427572.00
Code OB Desc:		**North83:**	5022065.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12/22/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008930983
Layer:	2
Color:	2
General Color:	GREY
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	18
Material 2 Desc:	SANDSTONE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.5
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 1008930982
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.5
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931079
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931104
Layer: 2
Plug From: 28.0
Plug To: 40.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008931103
Layer: 1
Plug From: 0.0
Plug To: 28.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008930938
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1008930902
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008931011
Layer: 1

Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	30.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008931031
Layer:	1
Slot:	10
Screen Top Depth:	30.0
Screen End Depth:	40.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008930903
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008931056
Diameter:	4.0
Depth From:	2.5
Depth To:	40.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1008931055
Diameter:	8.0
Depth From:	0.0
Depth To:	2.5
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

51	***1 of 1***	***WNW/249.5***	***83.6 / 1.69***	***603 March Road lot 9 con 3 Kanata ON***	***WWIS***

Well ID:	7405269	**Flowing (Y/N):**	

Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	12/08/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	EHM59AAU	**Contractor:**	7675
Tag:	A311086	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008877136	**Tag No:**	A311086
Depth M:	8.2296	**Contractor:**	7675
Year Completed:	2021	**Latitude:**	45.3483445048212
Well Completed Dt:	11/19/2021	**Longitude:**	-75.9245913617827
Audit No:	EHM59AAU	**Y:**	45.3483444984511
Path:		**X:**	-75.92459120053425

Bore Hole Information

Bore Hole ID:	1008877136	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427571.00
Code OB Desc:		**North83:**	5022064.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/19/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008877314
Layer:	3
Color:	
General Color:	
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	27.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008877312
Layer: 1
Color:
General Color:
Material 1:
Material 1 Desc:
Material 2: 02
Material 2 Desc: TOPSOIL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008877313
Layer: 2
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877456
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877457
Layer: 2
Plug From: 1.0
Plug To: 16.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877458
Layer: 3
Plug From: 16.0
Plug To: 27.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID:	1008877428
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1008877230
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1008877191
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1008877355
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	17.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008877382
Layer:	1
Slot:	10
Screen Top Depth:	17.0
Screen End Depth:	27.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008877192
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft

Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008877272
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 22.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1008877405
Diameter: 4.0
Depth From: 5.0
Depth To: 27.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1008877404
Diameter: 8.0
Depth From: 0.0
Depth To: 5.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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52 | ***1 of 1*** | ***WNW/249.6*** | ***84.9 / 3.00*** | ***603 March Road lot 9 con 3 Kanata ON*** | ***WWIS***

Well ID: 7405254
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: MBQFXBFC
Tag: A311083
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 12/08/2021
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1008876742
Tag No: A311083

Depth M:	7.62	**Contractor:**	7675
Year Completed:	2021	**Latitude:**	45.3477197701356
Well Completed Dt:	11/18/2021	**Longitude:**	-75.9250407429873
Audit No:	MBQFXBFC	**Y:**	45.347719763312995
Path:		**X:**	-75.92504058176144

Bore Hole Information

Bore Hole ID:	1008876742	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427535.00
Code OB Desc:		**North83:**	5021995.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/18/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008876893
Layer:	1
Color:	
General Color:	
Material 1:	
Material 1 Desc:	
Material 2:	02
Material 2 Desc:	TOPSOIL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008876894
Layer:	2
Color:	
General Color:	
Material 1:	15
Material 1 Desc:	LIMESTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	25.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877019
Layer: 2
Plug From: 1.0
Plug To: 14.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877018
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008876988
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008877020
Layer: 3
Plug From: 14.0
Plug To: 25.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008876822
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 1008876792
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008876924
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 15.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID:	1008876945
Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008876793
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008876855
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	20.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008876967
Diameter:	4.0
Depth From:	3.0
Depth To:	25.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1008876966
Diameter:	8.0
Depth From:	0.0
Depth To:	3.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Unplottable Summary

Total: 50 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 8/11 Con 4/5	Kanata ON	
CA	KANATA RESEARCH PARK CORP.	PT.LOTS 8&9/C-4, HELMSDALE,SWM	KANATA ON	
CA	KANATA RESEARCH PARK CORP.	PT.LOT 9/CON.4,NEWBRIDGE (SWM)	KANATA CITY ON	
CA	KANATA CITY	LEGGET DRIVE	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORP./CROSS KEYS	STORMWATER MANAGEMENT FACILITY	KANATA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
CA	MOSAID TECHNOLOGIES INCORPORATED	PT.LOT 8/CON.3,HINES RD., SWM	KANATA CITY ON	
CA		Kanata Research Park	Kanata ON	
CA		Kanata Research Park	Kanata ON	
CA		Kanata Research Park	Kanata ON	
CA	KANATA CITY - EAST MARCH TRUNK SEWERS	PROP.EASMT.-LEGGET DRIVE	KANATA CITY ON	
CA	Kanata Research Park Corporation	Plan 4M-1203, Blocks 1 to 17	Ottawa ON	
CA	Kanata Research Park Corporation		Ottawa ON	
CA	Kanata Research Park Corporation	Plan 4M-1203, Blocks 1 to 17	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	

CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9 Concession 4 Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	Plasco Trail Road Inc.	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA	City of Ottawa	Part of Lot 9, Concession 4, Rideau Front	Ottawa ON	
CA		Kanata Research Park	Kanata ON	
CA	Daniel Patrick O'Brien	Part Lot 9, Concession 3, at Manotick Station	Ottawa ON	
CA	City of Ottawa	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	Briarridge Sewage Pumping Station	Lot 9, Concession 4	Ottawa ON	
GEN	Trans Northern Pipelines Inc.	Lot 8, Concession 4, Township of Osgoode	Ottawa ON	K0A 2W0
LIMO	Cumberland Landfill	Lot 9, Concession 3	Ottawa ON	
PTTW	Kanata Research Park Corporation	Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA	ON	
PTTW	Mattamy (Half Moon Bay) Limited	Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City	of Ottawa CITY OF OTTAWA Nepean ON	
PTTW	Burnside Sand & Gravel Limited	Lot 8, Concession 4RF, Ottawa (Geograpic Township of Nepean) Nepean	ON	
SPL	City of Ottawa	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>	Ottawa ON	
SPL	Nortel Networks<UNOFFICIAL>	Nortel Networks<UNOFFICIAL>	Ottawa ON	
SPL	OTTAWA-CARLETON, REG. MUN.	LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE	KANATA CITY ON	
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON	

SPL	OTTAWA-CARLETON TRANSIT	MARCH ROAD, SOUTH OF CARLING	OTTAWA CITY ON
WWIS		lot 8	ON
WWIS		lot 9	ON
WWIS		lot 8	ON
WWIS		lot 8	ON
WWIS		lot 8	ON
WWIS		lot 8	ON
WWIS		lot 9	ON
WWIS		lot 9	ON
WWIS		lot 9	ON
WWIS		lot 9	ON
WWIS		lot 8	ON

Unplottable Report

Site:
Lot 8/11 Con 4/5 Kanata ON

Database: ***AAGR***

Type:
Region/County: Ottawa-Carleton
Township: Kanata
Concession: 4/5
Lot: 8/11
Size (ha):
Landuse:
Comments:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOTS 8&9/C-4, HELMSDALE,SWM KANATA ON

Database: ***CA***

Certificate #: 3-1056-98-
Application Year: 98
Issue Date: 9/18/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOT 9/CON.4,NEWBRIDGE (SWM) KANATA CITY ON

Database: ***CA***

Certificate #: 3-0095-94-
Application Year: 94
Issue Date: 3/15/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY***
LEGGET DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 7-1141-88-
Application Year: 88
Issue Date: 7/28/1988
Approval Type: Municipal water
Status: Approved
Application Type:

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

Site: ***KANATA RESEARCH PARK CORP./CROSS KEYS***
STORMWATER MANAGEMENT FACILITY KANATA CITY ON

Database: ***CA***

Certificate #: 3-0160-90-
Application Year: 90
Issue Date: 1/22/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database: ***CA***

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MOSAID TECHNOLOGIES INCORPORATED***
PT.LOT 8/CON.3,HINES RD., SWM KANATA CITY ON

Database: ***CA***

Certificate #: 3-0773-97-
Application Year: 97
Issue Date: 8/13/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Kanata Research Park Kanata ON

Database: ***CA***

Certificate #: 8125- 4MTJ36
Application Year: 01
Issue Date: 3/29/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive, Suite 206
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Design change of stormwater management pond 2 to allow encroachment of proposed Stealth Development and to provide for a second forebay
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 8125-4MTJ36
Application Year: 01
Issue Date: 2/6/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Amendment requested by Technical Support Staff.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 8125-4MTJ36
Application Year: 02
Issue Date: 5/30/02
Approval Type: Municipal & Private sewage
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Construction of 3 (three) permanent stormwater management facilities to provide quality and quantity control.
Contaminants:
Emission Control:

Site: ***KANATA CITY - EAST MARCH TRUNK SEWERS PROP.EASMT.-LEGGET DRIVE KANATA CITY ON*** ***Database:*** ***CA***

Certificate #: 3-2442-89-
Application Year: 89
Issue Date: 12/18/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:

Emission Control:

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

Certificate #: 3807-62PHBL
Application Year: 2004
Issue Date: 8/13/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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

Database: ***CA***

Certificate #: 4152-84KLK5
Application Year: 2010
Issue Date: 5/28/2010
Approval Type: Air
Status: Amended
Application Type:

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

Certificate #: 6925-6REN9E
Application Year: 2009
Issue Date: 3/31/2009
Approval Type: Air
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

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

Site:
Kanata Research Park Kanata ON

Database: ***CA***

Certificate #: 5816-5ALKNH
Application Year: 02
Issue Date: 5/30/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Amended CofA
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive, Suite 206
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Increase Storage Volumes for Stormwater Management Pond No. 3.
Contaminants:
Emission Control:

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

Database: ***CA***

Certificate #: 9380-68QMKZ
Application Year: 2005
Issue Date: 1/27/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***GEN***

Generator No: ON8926377

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

Detail(s)

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

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Site: ***Cumberland Landfill***
Lot 9, Concession 3 Ottawa ON

Database: ***LIMO***

ECA/Instrument No: A461602
Operation Status: Closed
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
ERC Volume Unit:
ERC Dt Last Det:
Landfill Type:
Source File Type:
Fill Rate:
Fill Rate Unit:
Tot Fill Area (ha):
Tot Site Area (ha):
Footprint:
Tot Apprv Cap (m3):
Contam Atten Zone:
Grndwtr Mntr:
Surf Wtr Mntr:
Air Emis Monitor:
Approved Waste Type:
Client Site Name:
ERC Methodology:
Site Name: Cumberland Landfill
Site Location Details:
Service Area:
Page URL:

Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfll Gas:
Lndfll Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:
Financial Assurance:
Last Report Year:
Region: Eastern
District Office: Ottawa
Site County:
Lot:
Concession:
Latitude:
Longitude:
Easting:
Northing:
UTM Zone:
Data Source:

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

Database: ***PTTW***

EBR Registry No: IA05E1015
Ministry Ref No: ER-3083-67XPBX
Notice Type: Instrument Decision
Notice Stage:
Notice Date: November 02, 2005
Proposal Date: June 29, 2005
Year: 2005
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:

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

Company Name: Kanata Research Park Corporation
Site Address:
Location Other:
Proponent Name:
Proponent Address: 555 Legget Drive, Kanata Ontario, K2K 2X3
Comment Period:
URL:

Site Location Details:

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

Site: ***Mattamy (Half Moon Bay) Limited***
Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City of Ottawa CITY OF OTTAWA Nepean ON

Database: ***PTTW***

EBR Registry No: 012-5618
Ministry Ref No: 6071-A3PQPJ
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 01, 2016
Proposal Date: November 03, 2015
Year: 2015
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Mattamy (Half Moon Bay) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 2360 Bristol Circle, Oakville Ontario, Canada L6H 6M5
Comment Period:
URL:

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

Site Location Details:

Lot: 10-12, Concession: 3, Original Geographic Township of Nepean, City of Ottawa Lot 8-9 and Concession 3, Original Geographic Township of Nepean, City of Ottawa CITY OF OTTAWA Nepean

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Site: ***Burnside Sand & Gravel Limited***
Lot 8, Concession 4RF, Ottawa (Geograpic Township of Nepean) Nepean ON

Database: ***PTTW***

EBR Registry No: IA03E1440
Ministry Ref No: ER-18582
Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 16, 2004
Proposal Date: October 14, 2003
Year: 2003
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Burnside Sand & Gravel Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 3301 Moodie Drive, Ottawa, ON Ontario, K2J 4S8
Comment Period:
URL:

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

Site Location Details:

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

Site: ***City of Ottawa***
LEGGET AND MARCH RD, KANATA<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	0123-64NQX5	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	9/9/2004	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	Waste
MOE Reported Dt:	9/9/2004	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:	Ottawa		
Nearest Watercourse:			
Site Name:	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>		
Site Address:			
Site Region:	Eastern		
Site Municipality:	Ottawa		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	Discharge Or Bypass To A Watercourse		
Incident Preceding Spill:			
Environment Impact:	Possible		
Health Env Consequence:			
Nature of Impact:	Surface Water Pollution		
Contaminant Qty:			
System Facility Address:			
Client Name:	City of Ottawa		
Client Type:			
Source Type:			
Contaminant Code:	44		
Contaminant Name:	SEWAGE,RAW UNCHLORINATED		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	Water		
Incident Reason:	Equipment Failure		
Incident Summary:	Legget & March Rd SPS,raw,unchlorin,equip failure		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:	Spill to Inland Watercourses		
Call Report Locatn Geodata:			

Site: ***Nortel Networks<UNOFFICIAL>***
Nortel Networks<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No:	4030-6GTJE2	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	9/28/2005	***Discharger Report:***	0
Dt MOE Arvl on Scn:		***Material Group:***	Gases/Particulate
MOE Reported Dt:	10/3/2005	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:	Ottawa		
Nearest Watercourse:			

Site Name:	Nortel Networks<UNOFFICIAL>
Site Address:	
Site Region:	
Site Municipality:	Ottawa
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	
Environment Impact:	Not Anticipated
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	
System Facility Address:	
Client Name:	Nortel Networks<UNOFFICIAL>
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	HALON (CFC)
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Air
Incident Reason:	
Incident Summary:	Spill to Air
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Other
SAC Action Class:	Spills at Federal Facilities & Spills of National Interest
Call Report Locatn Geodata:	

Site: ***OTTAWA-CARLETON, REG. MUN.***
LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE KANATA CITY ON

Database: ***SPL***

Ref No:	134351	***Municipality No:***	20103
Year:		***Nature of Damage:***	
Incident Dt:	//	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	11/18/1996	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	KANATA CITY		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	CONTAINER OVERFLOW		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Soil contamination		
Contaminant Qty:			

System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: EQUIPMENT FAILURE
Incident Summary: REG. MUN. OTTAWA-CARLETONL.U.S.T. FUEL LEAKING OUTTOP OF THE TANK.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site: ***ONTARIO HYDRO***
SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database: ***SPL***

Ref No: 128700
Year:
Incident Dt: 6/26/1996
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/3/1996
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: KANATA CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: CONFIRMED
Health Env Consequence:
Nature of Impact: Soil contamination
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: OTHER
Incident Summary: ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:

Municipality No: 20103
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved: EPS

Call Report Locatn Geodata:

Site: ***OTTAWA-CARLETON TRANSIT***
MARCH ROAD, SOUTH OF CARLING OTTAWA CITY ON

Database: ***SPL***

Ref No:	222088	***Municipality No:***	20107
Year:		***Nature of Damage:***	
Incident Dt:	2/25/2002	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	2/25/2002	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	OTTAWA CITY		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	OTHER CONTAINER LEAK		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Water course or lake		
Contaminant Qty:			
System Facility Address:			
Client Name:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND / WATER		
Incident Reason:	MATERIAL FAILURE		
Incident Summary:	OC TRANSIT: 2L OF ANTIFREEZE IN THE SEWER, CLEANING		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			

Site:
lot 8 ON

Database: ***WWIS***

Well ID:	1531461	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	10/26/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	223452	***Contractor:***	3323
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON

Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Lot: 008
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052995
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09/27/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931078556
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931078557
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 20.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933116632
Layer: 1
Plug From: 0.0
Plug To: 27.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531461
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10601565
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092746
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991531461
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 42.0
Recommended Pump Depth: 20.0
Pumping Rate: 25.0
Flowing Rate:
Recommended Pump Rate: 25.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934657598
Test Type: Recovery
Test Duration: 45
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934914489
Test Type: Recovery
Test Duration: 60
Test Level: 10.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112908
Test Type: Recovery
Test Duration: 15
Test Level: 16.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934397080
Test Type: Recovery
Test Duration: 30
Test Level: 12.0
Test Level UOM: ft

Water Details

Water ID: 933491929
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 35.0
Water Found Depth UOM: ft

Site:
lot 9 ON

Database:
WWIS

Well ID: 1525906
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Recharge Well
Water Type:
Casing Material:
Audit No: 92144
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/06/1991
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047641
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/12/1991

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

Remarks: ***Location Method:*** na
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931062633
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 95.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062635
Layer: 4
Color: 8
General Color: BLACK
Material 1: 21
Material 1 Desc: GRANITE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 180.0
Formation End Depth: 203.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062632
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062634
Layer: 3

Color: 2
General Color: GREY
Material 1: 21
Material 1 Desc: GRANITE
Material 2: 71
Material 2 Desc: FRACTURED
Material 3: 85
Material 3 Desc: SOFT
Formation Top Depth: 95.0
Formation End Depth: 180.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525906
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10596211
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083438
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 203.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930083437
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

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991525906
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 150.0
Recommended Pump Depth: 150.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 7.0
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: 934105682
Test Type:
Test Duration: 15
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389316
Test Type:
Test Duration: 30
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649842
Test Type:
Test Duration: 45
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907457
Test Type:
Test Duration: 60
Test Level: 150.0
Test Level UOM: ft

Water Details

Water ID: 933485037
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 100.0
Water Found Depth UOM: ft

Water Details

Water ID: 933485038
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 180.0
Water Found Depth UOM: ft

Site:
lot 8 ON

Database: ***WWIS***

Well ID: 1531175
Construction Date:
Use 1st: Domestic
Use 2nd:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1

Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 206815
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Date Received: 06/12/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6006
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052709
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/30/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931077736
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 85
Material 2 Desc: SOFT
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931077737
Layer: 2
Color: 1
General Color: WHITE
Material 1: 21
Material 1 Desc: GRANITE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:

Formation Top Depth: 8.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933116346
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961531175
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10601279
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930092144
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930092145
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 60.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991531175
Pump Set At:
Static Level: 12.0
Final Level After Pumping: 55.0
Recommended Pump Depth: 58.0
Pumping Rate: 10.0
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: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934121142
Test Type: Recovery
Test Duration: 15
Test Level: 12.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396553
Test Type: Recovery
Test Duration: 30
Test Level: 12.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934913407
Test Type: Recovery
Test Duration: 60
Test Level: 12.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934665279
Test Type: Recovery
Test Duration: 45
Test Level: 12.0
Test Level UOM: ft

Water Details

Water ID: 933491538
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

Site:
lot 8 ON

Database: ***WWIS***

Well ID: 1525907
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 92145
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/06/1991
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 008

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047642
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/12/1991
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931062636
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062637
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 83.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525907
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10596212
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083440
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 83.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930083439
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 25.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991525907
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 60.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 15.0
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: 934389317
Test Type:
Test Duration: 30
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105683
Test Type:
Test Duration: 15
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649843
Test Type:
Test Duration: 45
Test Level: 60.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907458
Test Type:
Test Duration: 60
Test Level: 60.0
Test Level UOM: ft

Water Details

Water ID: 933485039
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60.0
Water Found Depth UOM: ft

Water Details

Water ID: 933485040
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 78.0
Water Found Depth UOM: ft

Site:
lot 8 ON

Database: ***WWIS***

Well ID: 1528693
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 152972
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 08/28/1995
Selected Flag: TRUE
Abandonment Rec:
Contractor: 5222
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	10050229	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	03/02/1995	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931070508
Layer:	1
Color:	
General Color:	
Material 1:	01
Material 1 Desc:	FILL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931070509
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	81
Material 2 Desc:	SANDY
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	3.0
Formation End Depth:	4.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931070511
Layer:	4
Color:	2
General Color:	GREY
Material 1:	21
Material 1 Desc:	GRANITE
Material 2:	73
Material 2 Desc:	HARD

Material 3:
Material 3 Desc:
Formation Top Depth: 9.0
Formation End Depth: 49.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931070510
Layer: 3
Color: 2
General Color: GREY
Material 1: 13
Material 1 Desc: BOULDERS
Material 2: 05
Material 2 Desc: CLAY
Material 3: 77
Material 3 Desc: LOOSE
Formation Top Depth: 4.0
Formation End Depth: 9.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931070512
Layer: 5
Color: 2
General Color: GREY
Material 1: 21
Material 1 Desc: GRANITE
Material 2: 46
Material 2 Desc: QUARTZ
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 49.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113622
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961528693
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10598799
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930087787
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	60.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930087786
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

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	991528693
Pump Set At:	
Static Level:	12.0
Final Level After Pumping:	50.0
Recommended Pump Depth:	50.0
Pumping Rate:	12.0
Flowing Rate:	
Recommended Pump Rate:	10.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933488508
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	51.0
Water Found Depth UOM:	ft

Water Details

Water ID:	933488507
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	48.0
Water Found Depth UOM:	ft

Site:
lot 8 ON

Database:
WWIS

Well ID: 1500396
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OTTAWA CITY (GLOUCESTER)
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/26/1948
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1107
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10022441
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/29/1947
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 930989161
Layer: 1
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989162
Layer: 2
Color:
General Color:
Material 1: 26
Material 1 Desc: ROCK

Material 2: 19
Material 2 Desc: SLATE
Material 3:
Material 3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 51.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500396
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10571011
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037815
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 28.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037816
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 51.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
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

Site:
lot 9 ON

Database:
WWIS

Well ID: 1532483
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 234729
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/04/2001
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3323
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10516933
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/30/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 932832977
Layer: 2
Color: 1
General Color: WHITE
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932832978
Layer: 3
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 25.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932832976
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933219919
Layer: 1
Plug From: 0.0
Plug To: 22.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961532483
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11065503
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930094926
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991532483
Pump Set At:
Static Level: 8.0
Final Level After Pumping: 60.0
Recommended Pump Depth: 30.0
Pumping Rate: 50.0
Flowing Rate:
Recommended Pump Rate: 20.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934661001
Test Type: Recovery
Test Duration: 45
Test Level: 8.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934917747
Test Type: Recovery
Test Duration: 60
Test Level: 8.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934401034
Test Type: Recovery
Test Duration: 30
Test Level: 9.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934116866
Test Type: Recovery
Test Duration: 15
Test Level: 11.0
Test Level UOM: ft

Water Details

Water ID: 934008701
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 57.0
Water Found Depth UOM: ft

Site:
lot 9 ON

Database:
WWIS

Well ID: 1525911
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 92152
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/06/1991
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047646
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/20/1991
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931062646
Layer: 3
Color: 7
General Color: RED
Material 1: 21
Material 1 Desc: GRANITE
Material 2: 71
Material 2 Desc: FRACTURED
Material 3: 85
Material 3 Desc: SOFT
Formation Top Depth: 90.0
Formation End Depth: 180.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062645
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 90.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062647
Layer: 4
Color: 8
General Color: BLACK
Material 1: 21
Material 1 Desc: GRANITE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 180.0
Formation End Depth: 203.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062644
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 11
Material 2 Desc: GRAVEL
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525911
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10596216
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083447
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: 930083448
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 203.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991525911
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 150.0
Recommended Pump Depth: 150.0
Pumping Rate: 18.0
Flowing Rate:
Recommended Pump Rate: 15.0
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: 934389321
Test Type:
Test Duration: 30
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934650265
Test Type:
Test Duration: 45
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907462
Test Type:
Test Duration: 60
Test Level: 150.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105687
Test Type:
Test Duration: 15
Test Level: 150.0
Test Level UOM: ft

Water Details

Water ID: 933485046
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 194.0
Water Found Depth UOM: ft

Water Details

Water ID: 933485045
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 95.0
Water Found Depth UOM: ft

Site:
lot 9 ON

Database: ***WWIS***

Well ID: 1527474
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 135688
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10/07/1993
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049113
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:

Cluster Kind:
Date Completed: 09/21/1993
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931066758
Layer: 4
Color: 1
General Color: WHITE
Material 1: 21
Material 1 Desc: GRANITE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 197.0
Formation End Depth: 260.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931066755
Layer: 1
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931066757
Layer: 3
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 68.0
Formation End Depth: 197.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931066756
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 68.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933112483
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961527474
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10597683
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930085763
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: 930085764
Layer: 2
Material:
Open Hole or Material:
Depth From:
Depth To: 20.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930085765
Layer: 3
Material:
Open Hole or Material:
Depth From:
Depth To: 260.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991527474
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 180.0
Recommended Pump Depth: 200.0
Pumping Rate: 4.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 0
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934110715
Test Type: Draw Down
Test Duration: 15
Test Level: 180.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903650
Test Type: Draw Down
Test Duration: 60
Test Level: 180.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934654856
Test Type: Draw Down
Test Duration: 45
Test Level: 180.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385530
Test Type: Draw Down
Test Duration: 30
Test Level: 180.0
Test Level UOM: ft

Water Details

Water ID: 933486932
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 89.0
Water Found Depth UOM: ft

Water Details

Water ID: 933486933
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 130.0
Water Found Depth UOM: ft

Water Details

Water ID: 933486934
Layer: 3
Kind Code: 5
Kind: Not stated
Water Found Depth: 197.0
Water Found Depth UOM: ft

Site:
lot 9 ON

Database: ***WWIS***

Well ID: 1527475
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: 135689
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10/07/1993
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049114
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09/21/1993
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

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

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931066760
Layer: 2
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 84.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931066761
Layer: 3
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 84.0
Formation End Depth: 160.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931066759
Layer: 1
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961527475
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10597684
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930085767
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	20.0
Casing Diameter:	9.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930085766
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:	930085768
Layer:	3
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	160.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Water Details

Water ID:	933486935
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	140.0
Water Found Depth UOM:	ft

Site:
lot 8 ON

Database:
WWIS

Well ID:	1525908	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Recharge Well	***Date Received:***	12/06/1991
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	92146	***Contractor:***	3644
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	OTTAWA-CARLETON
Elevatn Reliabilty:		***Lot:***	008
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	

Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047643
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/13/1991
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931062639
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 63.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931062638
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525908
Method Construction Code: 5

Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10596213
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083442
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

Construction Record - Casing

Casing ID: 930083441
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 26.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991525908
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 40.0
Recommended Pump Depth: 40.0
Pumping Rate: 50.0
Flowing Rate:
Recommended Pump Rate: 15.0
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: 934649844
Test Type:
Test Duration: 45
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389318
Test Type:
Test Duration: 30
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907459
Test Type:
Test Duration: 60
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105684
Test Type:
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Water Details

Water ID: 933485041
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 56.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Apr 2024

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Apr 30, 2024

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Apr 30, 2024

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -May 2024

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-May 2024

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Jun 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Aug 2023

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Jun 30, 2024

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Jun 30, 2024

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Jun 30, 2024

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Mar 31, 2024

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2023

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jun 2024

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. 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-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2022

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2024

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment 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, 2022

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Aug 2023

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Jun 30, 2024

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Jun 30, 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Jun 30, 2024

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Jun 2024

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Apr 30, 2024

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests. This database includes spill incidents that occurred in Mar 2023-Mar 2024, May 2024 in addition to those listed in the Government Publication Date.

Government Publication Date: 1988-Jan 2023; see description

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2021

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Apr 2023

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Jun 30, 2024

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix D

Site Photographs

Site Photographs



Photo 1 ***View of Site (Parking Lot), facing North. Adjacent Nokia office towers (left) and adjacent office towers (right; beyond Legget Drive) observed.***



Photo 2 ***View of southern end of Site (parking lot), facing South. Adjacent Sanmina building observed beyond tree line.***



Photo 3 ***View of northern end of Site (parking lot), facing east, adjacent to Nokia Office Complex property to the left.***



Photo 4 ***View of Legget Drive, facing North. Typical adjacent office and hotel towers observed.***



Photo 5 ***View of March Road, facing Northwest. Typical office and commercial buildings observed.***

Note: Additional photos of the Overall Nokia Office Property and adjacent properties are provided in the 2022 GHD Phase One ESA (refer to Appendix B).



Appendix C

ERIS Database Search Report

DATABASE REPORT

Project Property:	*Broccolini - Nokia Ottawa Innovation Campus* *520 & 570 March Road, Kanata (Ottawa), Ontario* *Ottawa ON K2K 2T8*
Project No:	*12667557*
Report Type:	*Standard Report*
Order No:	*25062500137*
Requested by:	*GHD Contractors Limited*
Date Completed:	*June 25, 2025*

Environmental Risk Information Services
A division of Glacier Media Inc.
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Executive Summary

Property Information:

Project Property:	*Broccolini - Nokia Ottawa Innovation Campus* *520 & 570 March Road, Kanata (Ottawa), Ontario Ottawa ON K2K 2T8*
Project No:	*12667557*

Coordinates:

Latitude:	*45.3465379*
Longitude:	*-75.9199945*
UTM Northing:	*5,021,859.17*
UTM Easting:	*427,928.81*
UTM Zone:	*18T*

Elevation:	*269 FT* *81.93 M*

Order Information:

Order No:	*25062500137*
Date Requested:	*June 25, 2025*
Requested by:	*GHD Contractors Limited*
Report Type:	*Standard Report*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	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	0	0
CA	Certificates of Approval	Y	0	8	8
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	3	3
EBR	Environmental Registry	Y	0	2	2
ECA	Environmental Compliance Approval	Y	0	14	14
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	16	17
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	90	90
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory	Y	0	1	1
NPRI	National Pollutant Release Inventory - Historic	Y	0	3	3
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
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	1	1
PINC	Pipeline Incidents	Y	0	0	0
PPHA	Potential PFAS Handlers from EASR	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	44	44
SPL	Ontario Spills	Y	0	4	4
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	7	7

Database	Name	Searched	Project Property	Within 0.25 km	Total
Total:			1	194	195

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		520 & 570 March Road Ottawa ON K2K 2M5	-/0.0	0.03	46

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	EHS		600 March Road Kanata ON K2K 2T6	NW/135.1	-1.09	46
3	WWIS		ON ***Well ID:*** 7411887	SE/138.9	-1.06	46
4	WWIS		ON ***Well ID:*** 7418702	SE/140.8	-1.06	47
5	EHS		535 Legget Drive Kanata ON K2K 3B8	NE/175.9	-2.33	48
5	CA	Nortel Networks Corporation	535 Legget Drive Ottawa ON	NE/175.9	-2.33	48
5	CA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON	NE/175.9	-2.33	48
5	SCT	Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	NE/175.9	-2.33	49
5	SCT	PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	NE/175.9	-2.33	49
5	SCT	Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	NE/175.9	-2.33	49
5	NPRI	KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	NE/175.9	-2.33	49
5	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE/175.9	-2.33	52
5	ECA	Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	NE/175.9	-2.33	52

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
5	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE/175.9	-2.33	52
5	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE/175.9	-2.33	53
5	ECA	Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE/175.9	-2.33	53
5	GEN	Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	NE/175.9	-2.33	53
5	GEN	Mead Johnson Nutrition (Canada) Co.	900-535 Legget Drive Kanata ON K2K3B8	NE/175.9	-2.33	55
5	EHS		535 Legget Drive Kanata ON K2K 3B8	NE/175.9	-2.33	55
5	EHS		PE5413 - 535 Legget Drive Kanata ON K2K 2W2	NE/175.9	-2.33	55
5	EHS		535 Legget Drive Ottawa ON	NE/175.9	-2.33	55
6	SCT	CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	W/184.4	1.86	56
6	SCT	Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	W/184.4	1.86	56
7	ECA	Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	NE/189.0	-2.68	56
8	WWIS		lot 9 con 3 ON ***Well ID:*** 1503345	W/200.2	1.91	56
9	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	SSW/203.1	0.94	59

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	EHS		505 March Road Ottawa ON	SSW/203.1	0.94	59
9	SCT	Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	SSW/203.1	0.94	59
9	SCT	Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	SSW/203.1	0.94	60
9	SPL	Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	SSW/203.1	0.94	60
10	EHS		80 Hines Road n/a ON K2K 2T8	WSW/203.2	2.66	61
10	GEN	AMCC	80 Hines Rd. Kanata ON K2K 2T8	WSW/203.2	2.66	61
11	EHS		510-528 March Road Kanata ON	SE/235.0	-2.06	61
11	EHS		528 March Road Ottawa ON	SE/235.0	-2.06	62
11	EASR	SCI BROCKVILLE CORP.	528 MARCH KANATA ON	SE/235.0	-2.06	62
11	EASR	SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	SE/235.0	-2.06	62
12	ECA	Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	SE/237.8	-1.75	62
12	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/237.8	-1.75	63
12	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/237.8	-1.75	64

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/237.8	-1.75	66
12	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/237.8	-1.75	68
12	GEN	Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE/237.8	-1.75	70
12	GEN	SCI Brockville	500 March Road Ottawa ON	SE/237.8	-1.75	71
12	NPR2	SANMINA	500 MARCH ROAD KANATA ON K2K 0J9	SE/237.8	-1.75	81
12	PFHA	SANMINA	500 MARCH ROAD KANATA ON K2K 0J9	SE/237.8	-1.75	95
13	SCT	ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	W/240.2	2.64	109
13	SCT	TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	W/240.2	2.64	110
13	SCT	Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	W/240.2	2.64	110
13	SCT	Localcity	555 March Rd Kanata ON K2K 2M5	W/240.2	2.64	110
13	SCT	Local City Inc.	555 March Rd Kanata ON K2K 2M5	W/240.2	2.64	110
13	SCT	ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	W/240.2	2.64	111
13	EHS		555 March Road Ottawa (Kanata) ON	W/240.2	2.64	111

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
14	SCT	TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	WSW/240.7	2.94	111
14	GEN	Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	WSW/240.7	2.94	112
14	SCT	Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	WSW/240.7	2.94	112
14	GEN	Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	WSW/240.7	2.94	112
14	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW/240.7	2.94	113
14	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW/240.7	2.94	113
14	GEN	Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW/240.7	2.94	114
15	CA	WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	WSW/242.0	3.70	116
15	SCT	Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	WSW/242.0	3.70	116
15	SCT	Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	WSW/242.0	3.70	116
15	GEN	Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	WSW/242.0	3.70	117
15	SCT	Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	WSW/242.0	3.70	117
15	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON	WSW/242.0	3.70	118

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	SCT	Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	WSW/242.0	3.70	118
15	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW/242.0	3.70	119
15	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW/242.0	3.70	120
15	GEN	Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	WSW/242.0	3.70	121
15	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	WSW/242.0	3.70	122
15	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW/242.0	3.70	122
15	GEN	Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	WSW/242.0	3.70	123
15	GEN	ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	WSW/242.0	3.70	124
15	GEN	954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	WSW/242.0	3.70	125
15	GEN	Carrier Commercial Services	88 Hines Road Kanata ON	WSW/242.0	3.70	126
16	WWIS		lot 9 con 3 ON ***Well ID:*** 1503344	W/243.5	2.94	126
17	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	NW/245.0	-0.51	129
17	SCT	NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	NW/245.0	-0.51	129

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	SCT	Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW/245.0	-0.51	129
17	GEN	ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	NW/245.0	-0.51	129
17	SCT	Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW/245.0	-0.51	130
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/245.0	-0.51	130
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/245.0	-0.51	131
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/245.0	-0.51	131
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW/245.0	-0.51	132
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON	NW/245.0	-0.51	132
17	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	134
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	135
17	GEN	ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	136
17	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	137
17	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	139

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	141
17	GEN	NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW/245.0	-0.51	142
17	WWIS		600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444461	NW/245.0	-0.51	146
17	WWIS		600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444459	NW/245.0	-0.51	149
17	WWIS		600 March Road lot 8 con 4 Kanata ON ***Well ID:*** 7444460	NW/245.0	-0.51	152
18	SCT	Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	E/245.1	-3.20	155
18	SCT	Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	E/245.1	-3.20	155
18	SPL	Kanata Research Park Corporation	515 Legget drive Ottawa ON	E/245.1	-3.20	156
18	CA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON	E/245.1	-3.20	156
18	SCT	Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	E/245.1	-3.20	157
18	HINC		515 LEGGET DRIVE KANATA ON	E/245.1	-3.20	157
18	EHS		515 Legget Drive Ottawa ON	E/245.1	-3.20	157
18	NPRI	KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	E/245.1	-3.20	158

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
18	EHS		515 Legget Dr Ottawa ON K2K3G4	E/245.1	-3.20	160
18	ECA	Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	E/245.1	-3.20	160
18	GEN	Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	E/245.1	-3.20	161
19	SCT	EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	SW/245.4	1.08	161
19	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW/245.4	1.08	161
19	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW/245.4	1.08	162
19	GEN	HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW/245.4	1.08	162
19	SCT	DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	SW/245.4	1.08	162
19	SCT	WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	SW/245.4	1.08	163
19	EBR	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	SW/245.4	1.08	163
19	SCT	Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	SW/245.4	1.08	164
19	SCT	OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	SW/245.4	1.08	164
19	EBR	Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	SW/245.4	1.08	164

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
19	CA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	SW/245.4	1.08	165
19	CA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	SW/245.4	1.08	165
19	SCT	Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	SW/245.4	1.08	165
19	GEN	GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	SW/245.4	1.08	165
19	ECA	Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	SW/245.4	1.08	166
19	ECA	DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	SW/245.4	1.08	166
20	EHS		70 Hines Rd. Kanata ON K2K 2M5	SW/246.0	1.92	167
20	CA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON	SW/246.0	1.92	167
20	ECA	2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	SW/246.0	1.92	167
20	SPL	Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	SW/246.0	1.92	167
21	EHS		525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	NE/246.0	-5.09	168
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	168
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	169

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	170
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	NE/246.0	-5.09	171
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	NE/246.0	-5.09	172
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	172
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON	NE/246.0	-5.09	173
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON	NE/246.0	-5.09	173
21	ECA	Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	NE/246.0	-5.09	174
21	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/246.0	-5.09	175
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	175
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	176
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	177
21	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/246.0	-5.09	177
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	178

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	179
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	179
21	GEN	Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	180
21	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/246.0	-5.09	181
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	181
21	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	182
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	183
21	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/246.0	-5.09	184
21	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/246.0	-5.09	184
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE/246.0	-5.09	185
21	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	186
21	GEN	La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE/246.0	-5.09	186
21	GEN	BROOKSTREET	525 LEGGET DRIVE KANATA ON	NE/246.0	-5.09	187

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
21	GEN	Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE/246.0	-5.09	192
21	GEN	LaVie Executive Health Centre	525 Legget Dr., Suite 150 Kanata ON	NE/246.0	-5.09	194
21	ECA	Wesley Clover International Corporation	525 Legget Dr 359 Terry Fox Drive Ottawa ON K2K 0G7	NE/246.0	-5.09	198
21	SPL		525 LeGget Drive, Ottawa K2K2W2 OTTAWA ON	NE/246.0	-5.09	198
21	EASR	WESLEY CLOVER INTERNATIONAL CORPORATION	525 Legget DR Ottawa ON K2K 2W2	NE/246.0	-5.09	199
22	SCT	Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	S/247.1	-0.06	199
22	GEN	KRP Properties	40 Hines Road Ottawa ON K2K 2M5	S/247.1	-0.06	199
23	SCT	NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	NNE/247.9	-2.21	200
23	SCT	NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	NNE/247.9	-2.21	201
23	SCT	March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	NNE/247.9	-2.21	201
23	GEN	TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	NNE/247.9	-2.21	201
23	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	NNE/247.9	-2.21	202
23	GEN	PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	NNE/247.9	-2.21	203

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
23	SCT	March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	NNE/247.9	-2.21	203
23	SCT	March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	NNE/247.9	-2.21	203
23	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	203
23	SCT	Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	NNE/247.9	-2.21	205
23	GEN	March Networks	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	206
23	CA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	206
23	SCT	Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	NNE/247.9	-2.21	207
23	SCT	Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	NNE/247.9	-2.21	207
23	SCT	Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	NNE/247.9	-2.21	207
23	SCT	Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	NNE/247.9	-2.21	208
23	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	208
23	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	209
23	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	211

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
23	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	212
23	NPRI	KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	NNE/247.9	-2.21	213
23	GEN	KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	215
23	EHS		555 Legget Dr Ottawa ON K2K2X3	NNE/247.9	-2.21	217
23	EHS		555 Legget Dr Ottawa ON K2K2X3	NNE/247.9	-2.21	217
23	ECA	Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	217
23	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	218
23	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	219
23	GEN	Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	220
23	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	222
23	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	223
23	GEN	KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NNE/247.9	-2.21	225
23	GEN	KRP Properties a division of Wesley Clover International	555 Legget Drive Ottawa ON	NNE/247.9	-2.21	226

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 8 CA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
WILLIAM S. BURNSIDE (CANADA) LIMITED	88 HINES ROAD (SWM) KANATA ON K2K 2T8	WSW	241.99	15
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	SW	245.42	19
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON	SW	245.42	19
2117547 Ontario Inc.	70 Hines Rd Ottawa ON	SW	245.99	20

Lower Elevation	Address	Direction	Distance (m)	Map Key
Nortel Networks Corporation	535 Legget Drive Ottawa ON	NE	175.94	5
Kanata Research Park Corporation	535 Legget Drive Ottawa ON	NE	175.94	5
Kanata Research Park Corporation	515 Legget Drive Ottawa ON	E	245.06	18
Kanata Research Park Corporation	555 Legget Drive Ottawa ON	NNE	247.94	23

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011 - May 31, 2025 has found that there are 3 EASR site(s) within approximately 0.25

kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
SCI BROCKVILLE CORP.	528 MARCH RD KANATA ON K2K 2M5	SE	235.04	11
SCI BROCKVILLE CORP.	528 MARCH KANATA ON	SE	235.04	11
WESLEY CLOVER INTERNATIONAL CORPORATION	525 Legget DR Ottawa ON K2K 2W2	NE	246.00	21

EBR - Environmental Registry

A search of the EBR database, dated 1994 - May 31, 2025 has found that there are 2 EBR site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON	SW	245.42	19
Cyrium Technologies Incorporated	50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA ON	SW	245.42	19

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011 - May 31, 2025 has found that there are 14 ECA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Cyrium Technologies Incorporated	50 Hines Rd Kanata Ottawa ON	SW	245.42	19
DRS EW & Network Systems (Canada) Ltd.	50 Hines Road, Suite 200 Ottawa ON K2K 2M5	SW	245.42	19
2117547 Ontario Inc.	70 Hines Rd Ottawa ON K2V 1B8	SW	245.99	20

Lower Elevation	Address	Direction	Distance (m)	Map Key
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE	175.94	5
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE	175.94	5
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE	175.94	5
Nortel Networks Corporation	535 Legget Drive Ottawa ON K2H 8E9	NE	175.94	5
Kanata Research Park Corporation	535 Legget Drive Ottawa ON K2K 2X3	NE	175.94	5
Kanata Research Park Corporation	Kanata Research Park Kanata ON K2K 2X3	NE	189.01	7
Legget Drive Development Inc.	500 March Rd Ottawa ON K1P 6E2	SE	237.83	12
Kanata Research Park Corporation	515 Legget Drive Ottawa ON K2K 2X3	E	245.06	18
Legget Drive Development Inc.	515 and 525 Legget Dr Ottawa ON K1P 6E2	NE	246.00	21
Wesley Clover International Corporation	525 Legget Dr 359 Terry Fox Drive Ottawa ON K2K 0G7	NE	246.00	21
Kanata Research Park Corporation	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 31, 2024 has found that there are 17 EHS site(s) within approximately 0.25 kilometers

of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	520 & 570 March Road Ottawa ON K2K 2M5	-	0.00	1
	505 March Road Ottawa ON	SSW	203.15	9
	80 Hines Road n/a ON K2K 2T8	WSW	203.24	10
	555 March Road Ottawa (Kanata) ON	W	240.16	13
	70 Hines Rd. Kanata ON K2K 2M5	SW	245.99	20

Lower Elevation	Address	Direction	Distance (m)	Map Key
	600 March Road Kanata ON K2K 2T6	NW	135.07	2
	535 Legget Drive Ottawa ON	NE	175.94	5
	PE5413 - 535 Legget Drive Kanata ON K2K 2W2	NE	175.94	5
	535 Legget Drive Kanata ON K2K 3B8	NE	175.94	5
	535 Legget Drive Kanata ON K2K 3B8	NE	175.94	5
	528 March Road Ottawa ON	SE	235.04	11

510-528 March Road Kanata ON	SE	235.04	11
515 Legget Dr Ottawa ON K2K3G4	E	245.06	18
515 Legget Drive Ottawa ON	E	245.06	18
525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2	NE	246.00	21
555 Legget Dr Ottawa ON K2K2X3	NNE	247.94	23
555 Legget Dr Ottawa ON K2K2X3	NNE	247.94	23

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Dec 31, 2024 has found that there are 90 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
AMCC	80 Hines Rd. Kanata ON K2K 2T8	WSW	203.24	10
Metconnex Inc.	84 Hines Road Suite 260 Ottawa ON	WSW	240.68	14
Skyworks Solutions (Test Lab)	84 Hines Rd, Suite 100 Kanata ON K2K 3G3	WSW	240.68	14
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW	240.68	14

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW	240.68	14
Skyworks Solutions Inc	100-84 Hines Road Kanata ON K2K 3G3	WSW	240.68	14
Telemus Inc.	88 Hines Road Ottawa ON K2K 2T8	WSW	241.99	15
954050 ONTARIO INC.	88 HINES RD KANATA ON	WSW	241.99	15
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW	241.99	15
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW	241.99	15
Ultra Electronics Canada Defence Inc.	88 Hines Road Ottawa ON	WSW	241.99	15
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	WSW	241.99	15
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2T8	WSW	241.99	15
Ultra Electronics TCS Inc.	88 Hines Road Ottawa ON	WSW	241.99	15
ULTRA ELECTRONICS	88 HINES RD OTTAWA ON K2K2T8	WSW	241.99	15
954050 ONTARIO INC.	88 HINES RD KANATA ON K2K 2B8	WSW	241.99	15

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Carrier Commercial Services	88 Hines Road Kanata ON	WSW	241.99	15
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW	245.42	19
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW	245.42	19
HUBER & SUHNER CANADA	50 HINES ROAD KANATA ON K2K 2M5	SW	245.42	19
GaN Systems Inc.	50 Hines road, suite 204 Ottawa ON	SW	245.42	19

Lower Elevation	Address	Direction	Distance (m)	Map Key
Intel of Canada, Ltd.	535 Legget Drive Suite 206 Kanata ON K2K 3B8	NE	175.94	5
Mead Johnson Nutrition (Canada) Co.	900-535 Legget Drive Kanata ON K2K3B8	NE	175.94	5
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE	237.83	12
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE	237.83	12
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE	237.83	12
Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE	237.83	12

Sanmina Corporation	500 March Road Ottawa ON K2K 0J9	SE	237.83	12
SCI Brockville	500 March Road Ottawa ON	SE	237.83	12
ALCATEL CANADA INC.	600 MARCH ROAD KANATA ON K2K 2E6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2T6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON	NW	244.96	17
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW	244.96	17
ALCATEL CANADA INC.	600 March Road Kanata ON K2K 2E6	NW	244.96	17
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW	244.96	17

NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW	244.96	17
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW	244.96	17
NOKIA CANADA	600 March Road Kanata ON K2K 2E6	NW	244.96	17
Broccolini Construction Ottawa Inc.	515 Legget Drive Ottawa ON K2K 3G4	E	245.06	18
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	NE	246.00	21
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K 2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON	NE	246.00	21
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE	246.00	21

Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
Sannoufi Medicine Professional Corporation	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21

Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE	246.00	21
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON K2K 2W2	NE	246.00	21
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
La Vie Medial Inc.	525 Legget Dr. Suite 150 Kanata ON K2K2W2	NE	246.00	21
BROOKSTREET	525 LEGGET DRIVE KANATA ON	NE	246.00	21
Dr. Charles Kamel, Professional Dentistry Corporat	120 - 525 Legget Drive Kanata ON K2K 2W2	NE	246.00	21
LaVie Executive Health Centre	525 Legget Dr., Suite 150 Kanata ON	NE	246.00	21
KRP Properties	40 Hines Road Ottawa ON K2K 2M5	S	247.11	22
TELEXIS CORPORATION	555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	NNE	247.94	23
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 KANATA ON K2K 2X3	NNE	247.94	23
PULSE CANADA LTD.	555 LEGGET DRIVE SUITE 1036 TWR B KANATA ON K2K 2X3	NNE	247.94	23
KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE	247.94	23

March Networks	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23
KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE	247.94	23
KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE	247.94	23
KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE	247.94	23
KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE	247.94	23
KRP Management Services Inc.	555 Legget Drive Ottawa ON	NNE	247.94	23
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23
Kanata Research Park Corp.	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23
KRP Properties A Division of Wesley Clover Interna	555 Legget Drive Ottawa ON K2K 2X3	NNE	247.94	23

KRP Properties a division of Wesley Clover International	555 Legget Drive Ottawa ON	NNE	247.94	23

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	515 LEGGET DRIVE KANATA ON	E	245.06	18

NPR2 - National Pollutant Release Inventory

A search of the NPR2 database, dated Feb 2024 has found that there are 1 NPR2 site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
SANMINA	500 MARCH ROAD KANATA ON K2K 0J9	SE	237.83	12

NPRI - National Pollutant Release Inventory - Historic

A search of the NPRI database, dated 1993-May 2017 has found that there are 3 NPRI site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
KANATA RESEARCH PARK	535 LEGGET Drive KANATA ON K2K3B8	NE	175.94	5
KANATA RESEARCH PARK	515 LEGGET Drive KANATA ON K2K3G4	E	245.06	18
KANATA RESEARCH PARK	555 LEGGET Drive KANATA ON K2K2X3	NNE	247.94	23

PFHA - Potential PFAS Handlers from NPRI

A search of the PFHA database, dated Feb 2024 has found that there are 1 PFHA site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
SANMINA	500 MARCH ROAD KANATA ON K2K 0J9	SE	237.83	12

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 44 SCT site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Capricorn Data Inc.	525 March Rd Kanata ON K2K 2M5	W	184.40	6
CAPRICORN DATA	525 MARCH RD RR 33 KANATA ON K2K 2M5	W	184.40	6
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Kanata ON K2K 3A4	SSW	203.15	9
Telus Health Solutions Inc.	505 March Rd Suite 450 Kanata ON K2K 3A4	SSW	203.15	9
Texas Instruments Canada Ltd.	505 March Rd Suite 200 Ottawa ON K2K 3A4	SSW	203.15	9
ROHDE & SCHWARZ CANADA	555 MARCH RD KANATA ON K2K 2M5	W	240.16	13
TEKTRONIX CANADA INC.	555 MARCH RD KANATA ON K2K 2M5	W	240.16	13
Rohde & Schwarz Canada Inc.	555 March Rd Kanata ON K2K 2M5	W	240.16	13
Localcity	555 March Rd Kanata ON K2K 2M5	W	240.16	13

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Local City Inc.	555 March Rd Kanata ON K2K 2M5	W	240.16	13
ASAP-CD Solutions	555 March Rd Ottawa ON K2K 2M5	W	240.16	13
TeleWatch Monitoring Services	84 Hines Rd Suite 130 Kanata ON K2K 3G3	WSW	240.68	14
Sidense Corp.	84 Hines Rd Suite 260 Kanata ON K2K 3G3	WSW	240.68	14
Flexus Electronics Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	WSW	241.99	15
Flexus Inc.	88 Hines Rd Bay 5-6 Kanata ON K2K 2T8	WSW	241.99	15
Telemus Inc.	88 Hines Rd Kanata ON K2K 2T8	WSW	241.99	15
Ultra Electronics	88 Hines Rd Kanata ON K2K 2T8	WSW	241.99	15
EXCALIBUR SYSTEMS LTD.	50 Hines Rd Kanata ON K2K 2M5	SW	245.42	19
DRS EW & Network Systems	50 Hines Rd Kanata ON K2K 2M5	SW	245.42	19
WorkDynamics Technologies	50 Hines Rd Suite 220 Kanata ON K2K 2M5	SW	245.42	19
Power Integrations Canada Inc.	50 Hines Rd Suite 240 Kanata ON K2K 2M5	SW	245.42	19

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
OneChip Photonics Inc.	50 Hines Rd Suite 200 Kanata ON K2K 2M5	SW	245.42	19
Merge Healthcare Incorporated	50 Hines Rd Suite 120 Kanata ON K2K 2M5	SW	245.42	19

Lower Elevation	Address	Direction	Distance (m)	Map Key
Solace Systems Inc.	535 Legget Dr Floor 3 Kanata ON K2K 3B8	NE	175.94	5
PIKA Technologies Inc.	535 Legget Dr Suite 400 Kanata ON K2K 3B8	NE	175.94	5
Mead Johnson Nutritionals	535 Legget Dr Unit 900 Kanata ON K2K 3B8	NE	175.94	5
Alcatel Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW	244.96	17
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2E6	NW	244.96	17
NEWBRIDGE NETWORK CORPORATION	600 MARCH RD KANATA ON K2K 2T6	NW	244.96	17
Alcatel-Lucent Canada Inc.	600 March Rd Kanata ON K2K 2T6	NW	244.96	17
Open Text Corporation	515 Legget Dr Suite 300 Kanata ON K2K 3G4	E	245.06	18
Ubiquity Software Corp.	515 Legget Dr Suite 400 Ottawa ON K2K 3G4	E	245.06	18

Quest Software Canada Inc.	515 Legget Dr Suite 1001 Kanata ON K2K 3G4	E	245.06	18
Trend Micro, Inc.	40 Hines Rd Suite 200 Kanata ON K2K 2M5	S	247.11	22
Mediphan Inc.	555 Legget Dr Suite 305 Ottawa ON K2K 2X3	NNE	247.94	23
Redirack Storage Systems	555 Legget Dr Suite 1007 Kanata ON K2K 2X3	NNE	247.94	23
Sch Specialty Literacy/Interve	555 Legget Dr Suite 900 Kanata ON K2K 2X3	NNE	247.94	23
Netistix Technologies Corp	555 Legget Dr Suite 304 Kanata ON K2K 2X3	NNE	247.94	23
Redirack Storage Systems	555 Legget Dr Tower A Suite 2007 Ottawa ON K2K 2X3	NNE	247.94	23
March Networks Corporation	555 Legget Dr Suite 530 Kanata ON K2K 2X3	NNE	247.94	23
March Networks Corporation	555 Legget Dr Ottawa ON K2K 2X3	NNE	247.94	23
March Networks	555 Legget Dr Suite 140 Kanata ON K2K 2X3	NNE	247.94	23
NOKIA	555 Legget Dr Suite 400 Kanata ON K2K 2X3	NNE	247.94	23
NOKIA IP TELEPHONY CORPORATION	555 LEGGET DR SUITE 400 KANATA ON K2K 2X3	NNE	247.94	23

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jun 2024; Aug-Feb 2025 has found that there are 4 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Colonnade Management<UNOFFICIAL>	505 March Road Ottawa ON K2K 3A4	SSW	203.15	9
Rogers Communications Inc.	70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	SW	245.99	20

Lower Elevation	Address	Direction	Distance (m)	Map Key
Kanata Research Park Corporation	515 Legget drive Ottawa ON	E	245.06	18
	525 LeGget Drive, Ottawa K2K2W2 OTTAWA ON	NE	246.00	21

WWIS - Water Well Information System

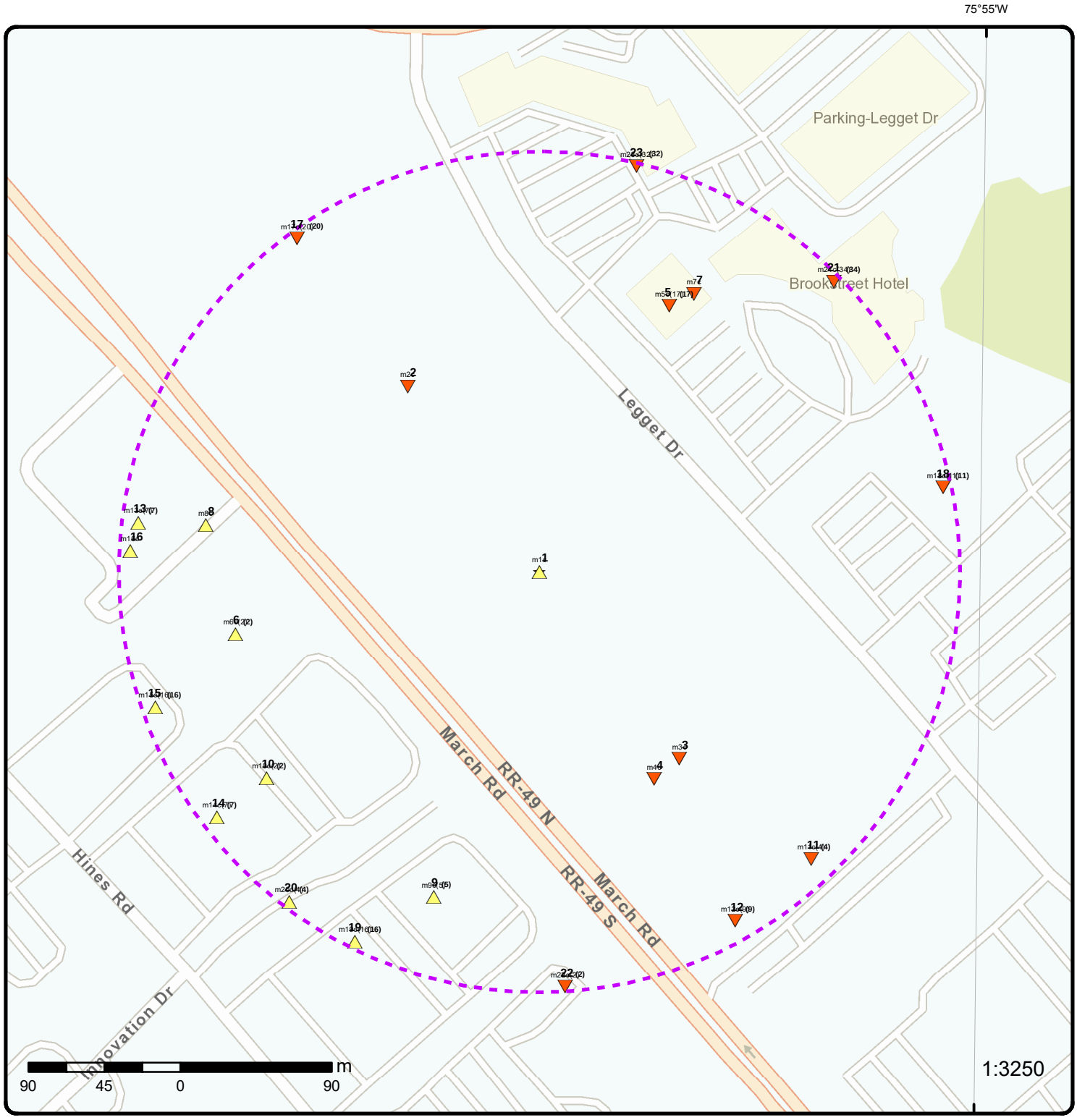
A search of the WWIS database, dated Dec 31 2023 has found that there are 7 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 9 con 3 ON ***Well ID:*** 1503345	W	200.15	8
	lot 9 con 3 ON ***Well ID:*** 1503344	W	243.55	16

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON ***Well ID:*** 7411887	SE	138.85	3
	ON	SE	140.79	4

Well ID: 7418702

600 March Road lot 8 con 4 Kanata ON	NW	244.96	**17**
Well ID: 7444461			
600 March Road lot 8 con 4 Kanata ON	NW	244.96	**17**
Well ID: 7444459			
600 March Road lot 8 con 4 Kanata ON	NW	244.96	**17**
Well ID: 7444460			



Map: 0.25 Kilometer Radius

Order Number: 25062500137

Address: 520 & 570 March Road, Kanata (Ottawa), Ontario, Ottawa, ON

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

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

75°55'30"W

45°21'N

45°21'N



Aerial

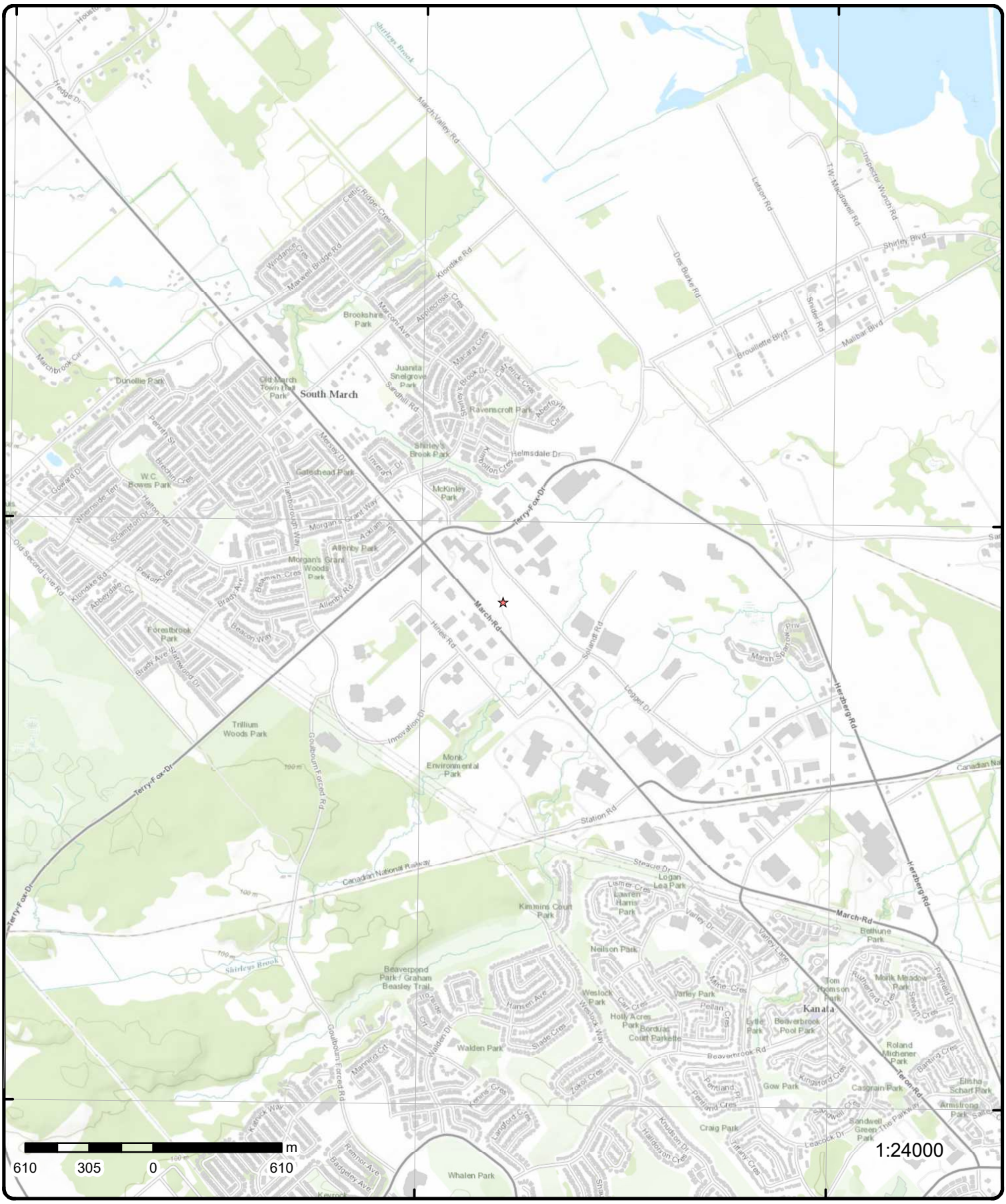
Year: 2023

Order Number: 25062500137

Address: 520 & 570 March Road, Kanata (Ottawa), Ontario, Ottawa, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 25062500137

Address: 520 & 570 March Road, Kanata (Ottawa), Ontario, ON

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	-/0.0	82.0 / 0.03	520 & 570 March Road Ottawa ON K2K 2M5	EHS

Order No:	24070500123	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	09-AUG-24	**Search Radius (km):**	.25
Date Received:	05-JUL-24	**X:**	-75.9193
Previous Site Name:		**Y:**	45.34611
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	NW/135.1	80.8 / -1.09	600 March Road Kanata ON K2K 2T6	EHS

Order No:	22010600440	**Nearest Intersection:**	
Status:	C	**Municipality:**	Kanata
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	18-JAN-22	**Search Radius (km):**	.25
Date Received:	06-JAN-22	**X:**	-75.92100813
Previous Site Name:		**Y:**	45.34752135
Lot/Building Size:			
Additional Info Ordered:	City Directory; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	SE/138.9	80.9 / -1.06	ON	WWIS

Well ID:	7411887	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	03/01/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C47441	**Contractor:**	7675
Tag:	A311034	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008964982	**Tag No:**	A311034
Depth M:		**Contractor:**	7675

Year Completed:	2022	**Latitude:**	45.3455458657277
Well Completed Dt:	02/02/2022	**Longitude:**	-75.9189164913814
Audit No:	C47441	**Y:**	45.34554585923208
Path:		**X:**	-75.9189163294058

Bore Hole Information

Bore Hole ID:	1008964982	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	428012.00
Code OB Desc:		**North83:**	5021748.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	02/02/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

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4 | ***1 of 1*** | ***SE/140.8*** | ***80.9 / -1.06*** | ***ON*** | ***WWIS***

Well ID:	7418702	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	06/01/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C48396	**Contractor:**	7675
Tag:	A331679	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1009052413	**Tag No:**	A331679
Depth M:		**Contractor:**	7675
Year Completed:	2022	**Latitude:**	45.3454363225597
Well Completed Dt:	05/12/2022	**Longitude:**	-75.9191061915986
Audit No:	C48396	**Y:**	45.345436316525074
Path:		**X:**	-75.91910603018418

Bore Hole Information

Bore Hole ID:	1009052413	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18

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

Code OB:		**East83:**	427997.00
Code OB Desc:		**North83:**	5021736.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	05/12/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

5	1 of 17	NE/175.9	79.6 / -2.33	**535 Legget Drive** **Kanata ON K2K 3B8**	EHS

Order No:	20100311004	**Nearest Intersection:**	Legget Drive and Terry Fox Drive
Status:	C	**Municipality:**	Kanata
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	3/19/2010	**Search Radius (km):**	0.25
Date Received:	3/11/2010	**X:**	-75.919057
Previous Site Name:		**Y:**	45.347895
Lot/Building Size:			
Additional Info Ordered:	City Directory		

5	2 of 17	NE/175.9	79.6 / -2.33	**Nortel Networks Corporation** **535 Legget Drive** **Ottawa ON**	CA

Certificate #:	4854-5GZU2U
Application Year:	2002
Issue Date:	12/20/2002
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

5	3 of 17	NE/175.9	79.6 / -2.33	**Kanata Research Park Corporation** **535 Legget Drive** **Ottawa ON**	CA

Certificate #:	5182-5M9TGN
Application Year:	2003
Issue Date:	5/8/2003
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	4 of 17	NE/175.9	79.6 / -2.33	Mead Johnson Nutritionals 535 Legget Dr Unit 900 Kanata ON K2K 3B8	SCT

Established: 01-AUG-07
Plant Size (ft²):
Employment:

--Details--
Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

Description: Toiletries, Cosmetics and Sundries Wholesaler-Distributors
SIC/NAICS Code: 414520

Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
SIC/NAICS Code: 414510

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	5 of 17	NE/175.9	79.6 / -2.33	PIKA Technologies Inc. 535 Legget Dr Suite 400 Kanata ON K2K 3B8	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	6 of 17	NE/175.9	79.6 / -2.33	Solace Systems Inc. 535 Legget Dr Floor 3 Kanata ON K2K 3B8	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors
SIC/NAICS Code: 417310

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	7 of 17	NE/175.9	79.6 / -2.33	KANATA RESEARCH PARK 535 LEGGET Drive KANATA ON K2K3B8	NPRI

NPRI ID:	8800000227	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWER C	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	65	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10024-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrous oxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	10102-43-9
Report ID:	
Rpt Period:	2004
Subst Released:	Oxides of nitrogen (expressed as NO)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	74-82-8
Report ID:	
Rpt Period:	2004
Subst Released:	Methane

Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

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

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

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5 | **8 of 17** | **NE/175.9** | **79.6 / -2.33** | **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 | **ECA**

Approval No: 8125-4MTJ36
Approval Date: 2001-03-29
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8015-4UUK67-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:

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5 | **9 of 17** | **NE/175.9** | **79.6 / -2.33** | **Nortel Networks Corporation**
535 Legget Drive
Ottawa ON K2H 8E9 | **ECA**

Approval No: 4854-5GZU2U
Approval Date: 2002-12-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Nortel Networks Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0863-5DAQUM-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:

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5 | **10 of 17** | **NE/175.9** | **79.6 / -2.33** | **Kanata Research Park Corporation**
535 Legget Drive
Ottawa ON K2K 2X3 | **ECA**

Approval No: 5816-5ALKNH
MOE District: Ottawa

Approval Date: 2002-05-30 **City:**
Status: Approved **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8364-59NNET-14.pdf
PDF Site Location:

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5 | ***11 of 17*** | ***NE/175.9*** | ***79.6 / -2.33*** | ***Kanata Research Park Corporation***
535 Legget Drive
Ottawa ON K2K 2X3 | ***ECA***

Approval No: 8125-4MTJ36 **MOE District:** Ottawa
Approval Date: 2001-02-06 **City:**
Status: Revoked and/or Replaced **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5568-4R5PGT-14.pdf
PDF Site Location:

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5 | ***12 of 17*** | ***NE/175.9*** | ***79.6 / -2.33*** | ***Kanata Research Park Corporation***
535 Legget Drive
Ottawa ON K2K 2X3 | ***ECA***

Approval No: 5182-5M9TGN **MOE District:** Ottawa
Approval Date: 2003-05-08 **City:**
Status: Approved **Longitude:** -75.918846
Record Type: ECA **Latitude:** 45.348034
Link Source: IDS **Geometry X:**
SWP Area Name: Mississippi Valley **Geometry Y:**
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Kanata Research Park Corporation
Address: 535 Legget Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2856-5DMHSA-14.pdf
PDF Site Location:

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5 | ***13 of 17*** | ***NE/175.9*** | ***79.6 / -2.33*** | ***Intel of Canada, Ltd.***
535 Legget Drive Suite 206
Kanata ON K2K 3B8 | ***GEN***

Generator Info

Generator No: ON6268256 **Choice of Contact:**
Approval Years: As of Nov 2021 **Contaminated Fac:**
Status: Registered **MHSW Facility:**
PO Box No: **SIC Code:**

Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

2021 Generator Info

Gen No: ON6268256
ID: 25280
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 541613
NAICS Code2:
NAICS Code3:
Gen Name: Intel of Canada, Ltd.
Gen Div:
Gen Op Name: Intel of Canada, Ltd.
Gen Op Div:
Site Adrs1: 535 Legget Drive
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2: Suite 206
Site City: Kanata
Province Out:
Site Postal Code: K2K 3B8
Site Country: Canada
Co Official: Jennifer Cuny
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Official: 9785531349 Ext.
Phone No Admin:
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402

2021 Generator Manifest

ID: 48172
Generator No: ON6268256
Receiver Type: 035
Waste Char: I
Waste Code: 331
Sum Received Qty: 1.0
Waste Class Name: WASTE COMPRESSED GASES
Count Manifests: 1
District: 402

2021 Generator Manifest

ID: 48171
Generator No: ON6268256
Receiver Type: 035
Waste Char: I
Waste Code: 145
Sum Received Qty: 4.0
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES
Count Manifests: 1
District: 402

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	14 of 17	NE/175.9	79.6 / -2.33	Mead Johnson Nutrition (Canada) Co. 900-535 Legget Drive Kanata ON K2K3B8	GEN

Generator Info

Generator No:	ON4694482	***Choice of Contact:***	
Approval Years:	As of Oct 2022	***Contaminated Fac:***	
Status:	Registered	***MHSW Facility:***	
PO Box No:		***SIC Code:***	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class:	331 I
Waste Class Name:	WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class:	263 I
Waste Class Name:	ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	15 of 17	NE/175.9	79.6 / -2.33	535 Legget Drive Kanata ON K2K 3B8	EHS

Order No:	20200513064	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	19-MAY-20	***Search Radius (km):***	.25
Date Received:	13-MAY-20	***X:***	-75.9192125
Previous Site Name:		***Y:***	45.3478896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	16 of 17	NE/175.9	79.6 / -2.33	PE5413 - 535 Legget Drive Kanata ON K2K 2W2	EHS

Order No:	21081600157	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	19-AUG-21	***Search Radius (km):***	.25
Date Received:	16-AUG-21	***X:***	-75.9164626
Previous Site Name:		***Y:***	45.3491336
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	17 of 17	NE/175.9	79.6 / -2.33	535 Legget Drive Ottawa ON	EHS

Order No:	24072600037	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	31-JUL-24	***Search Radius (km):***	.25
Date Received:	26-JUL-24	***X:***	-75.9190325

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

Previous Site Name: **Y:** 45.3479689
Lot/Building Size:
Additional Info Ordered:

---

6 **1 of 2** **W/184.4** **83.8 / 1.86** **CAPRICORN DATA** **SCT**
525 MARCH RD RR 33
KANATA ON K2K 2M5

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: CARBON PAPER AND INKED RIBBONS
SIC/NAICS Code: 3955

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

---

6 **2 of 2** **W/184.4** **83.8 / 1.86** **Capricorn Data Inc.** **SCT**
525 March Rd
Kanata ON K2K 2M5

Established: 1986
Plant Size (ft²): 3000
Employment: 5

--Details--
Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

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7 **1 of 1** **NE/189.0** **79.3 / -2.68** **Kanata Research Park Corporation** **ECA**
Kanata Research Park
Kanata ON K2K 2X3

Approval No: 8125-4MTJ36
Approval Date: 2002-05-30
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
MOE District: Ottawa
City:
Longitude: -75.918846
Latitude: 45.348034
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Kanata Research Park Corporation
Address: Kanata Research Park
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6185-4MFKX7-14.pdf
PDF Site Location:

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8 **1 of 1** **W/200.2** **83.8 / 1.91** **lot 9 con 3** **WWIS**
ON

Well ID: 1503345
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/01/1952

Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1802
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	009
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MARCH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503345.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/20/1952
Year Completed:	1952
Depth (m):	12.192
Latitude:	45.3467679412808
Longitude:	-75.9225283767252
X:	-75.92252821581005
Y:	45.3467679342807
Path:	150\1503345.pdf

Bore Hole Information

Bore Hole ID:	10025388	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427730.60
Code OB Desc:		**North83:**	5021887.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	11/20/1952	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Location Method Desc:	Original Pre1985 UTM Rel Code 9: unknown UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930996631
Layer:	2
Color:	
General Color:	
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	40.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996630
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503345
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10573958
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043528
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 9.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043529
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP

Pump Test ID:	991503345
Pump Set At:	
Static Level:	20.0
Final Level After Pumping:	30.0
Recommended Pump Depth:	
Pumping Rate:	7.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933456239
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	38.0
Water Found Depth UOM:	ft

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9 | ***1 of 5*** | ***SSW/203.1*** | ***82.9 / 0.94*** | ***Texas Instruments Canada Ltd.***
505 March Rd Suite 200
Ottawa ON K2K 3A4 | ***SCT***

Established:	1962
Plant Size (ft²):	
Employment:	21

--Details--

Description:	Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417320

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9 | ***2 of 5*** | ***SSW/203.1*** | ***82.9 / 0.94*** | ***505 March Road***
Ottawa ON | ***EHS***

Order No:	20050314003w	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:		**Client Prov/State:**	MA
Report Date:	3/14/2005 10:08:25 AM	**Search Radius (km):**	0.25
Date Received:	3/14/2005 10:08:25 AM	**X:**	0
Previous Site Name:		**Y:**	0
Lot/Building Size:			
Additional Info Ordered:			

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9 | ***3 of 5*** | ***SSW/203.1*** | ***82.9 / 0.94*** | ***Texas Instruments Canada Ltd.***
505 March Rd Suite 200
Kanata ON K2K 3A4 | ***SCT***

Established:	01-AUG-62
Plant Size (ft²):	
Employment:	

--Details--

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

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

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9 | ***4 of 5*** | ***SSW/203.1*** | ***82.9 / 0.94*** | ***Telus Health Solutions Inc.***
505 March Rd Suite 450
Kanata ON K2K 3A4 | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

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9 | ***5 of 5*** | ***SSW/203.1*** | ***82.9 / 0.94*** | ***Colonnade Management<UNOFFICIAL>***
505 March Road
Ottawa ON K2K 3A4 | ***SPL***

Ref No: 7635-8J2NEM
Year:
Incident Dt: 6/19/2011
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/21/2011
Dt Document Closed: 12/3/2011
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: circuit #2<UNOFFICIAL>
Site Address: 505 March Road
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name: Colonnade Management<UNOFFICIAL>
Client Type:
Source Type:
Incident Cause: Discharge or Emission to Air
Incident Preceding Spill:
Incident Reason:
Incident Summary: Kanata North Tech Park: 90 lbs R407C to atm
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 41 kg
Contaminant Qty 1: 41
Contaminant Unit: kg
Contaminant Code: 38
Contaminant Name: REFRIGERANT GAS, N.O.S.
Contaminant Limit 1:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

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

Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: Air Spills - Gases and Vapours
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

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10 | **1 of 2** | **WSW/203.2** | **84.6 / 2.66** | **80 Hines Road**
n/a ON K2K 2T8 | **EHS**

Order No: 20060623001w
Status: C
Report Type: Online Mapless
Report Date: 6/23/2006
Date Received: 6/23/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: CA
Search Radius (km): 0.25
X:
Y:

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10 | **2 of 2** | **WSW/203.2** | **84.6 / 2.66** | **AMCC**
80 Hines Rd.
Kanata ON K2K 2T8 | **GEN**

Generator Info

Generator No: ON4203674
Approval Years: 06,07,08
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: All Other Miscellaneous Manufacturing

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 339990

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

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11 | **1 of 4** | **SE/235.0** | **79.9 / -2.06** | **510-528 March Road**
Kanata ON | **EHS**

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

Order No:	20061012005	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	10/20/2006	**Search Radius (km):**	0.25
Date Received:	10/12/2006	**X:**	-75.917957
Previous Site Name:		**Y:**	45.344121
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans		

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11 | ***2 of 4*** | ***SE/235.0*** | ***79.9 / -2.06*** | ***528 March Road Ottawa ON*** | ***EHS***

Order No:	20140416041	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	22-APR-14	**Search Radius (km):**	.25
Date Received:	16-APR-14	**X:**	-75.917765
Previous Site Name:		**Y:**	45.344926
Lot/Building Size:			
Additional Info Ordered:			

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11 | ***3 of 4*** | ***SE/235.0*** | ***79.9 / -2.06*** | ***SCI BROCKVILLE CORP. 528 MARCH KANATA ON*** | ***EASR***

Approval No:	R-002-4521547225	**MOE District:**	
Status:	Registered	**Municipality:**	KANATA
Date:	8/25/15	**Latitude:**	
Record Type:		**Longitude:**	
Link Source:		**Geometry X:**	
Project Type:	Standby Power System	**Geometry Y:**	
Full Address:			
Approval Type:			
SWP Area Name:			
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

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11 | ***4 of 4*** | ***SE/235.0*** | ***79.9 / -2.06*** | ***SCI BROCKVILLE CORP. 528 MARCH RD KANATA ON K2K 2M5*** | ***EASR***

Approval No:	R-002-4521547225	**MOE District:**	
Status:	REGISTERED	**Municipality:**	KANATA
Date:	2015-08-25	**Latitude:**	
Record Type:	EASR	**Longitude:**	
Link Source:	MOFA	**Geometry X:**	
Project Type:	Standby Power System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Standby Power System		
SWP Area Name:			
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

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12 | ***1 of 9*** | ***SE/237.8*** | ***80.2 / -1.75*** | ***Legget Drive Development Inc. 500 March Rd Ottawa ON K1P 6E2*** | ***ECA***

Approval No:	0623-9SKM34	**MOE District:**	
Approval Date:	2015-01-13	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Legget Drive Development Inc.		
Address:	500 March Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7712-9RMMU6-14.pdf		
PDF Site Location:			

12	2 of 9	SE/237.8	80.2 / -1.75	**Sanmina Corporation** **500 March Road** **Ottawa ON K2K 0J9**	GEN

Generator Info

Generator No:	ON5466737	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2016	**Contaminated Fac:**	No
Status:		**MHSW Facility:**	No
PO Box No:		**SIC Code:**	334410
Country:	Canada		
Co Admin:	Emma Mason		
Phone No Admin:	613-886-6192 Ext.		
SIC Description:	SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING		

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Detail(s)

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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12 | ***3 of 9*** | ***SE/237.8*** | ***80.2 / -1.75*** | ***Sanmina Corporation*** ***500 March Road*** ***Ottawa ON K2K 0J9*** | ***GEN***

Generator Info

Generator No: ON5466737
Approval Years: 2015
Status:
PO Box No:
Country: Canada
Co Admin: Jessica Major
Phone No Admin: 613-886-6328 Ext.
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 334410

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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12 | ***4 of 9*** | ***SE/237.8*** | ***80.2 / -1.75*** | ***Sanmina Corporation***
500 March Road
Ottawa ON K2K 0J9 | ***GEN***

Generator Info

Generator No: ON5466737
Approval Years: As of Dec 2018
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Detail(s)

Waste Class: 262 T
Waste Class Name: Detergents and soaps

Waste Detail(s)

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

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12 | **5 of 9** | **SE/237.8** | **80.2 / -1.75** | **Sanmina Corporation**
500 March Road
Ottawa ON K2K 0J9 | **GEN**

Generator Info

Generator No:	ON5466737	**Choice of Contact:**	
Approval Years:	As of Jul 2020	**Contaminated Fac:**	
Status:	Registered	**MHSW Facility:**	
PO Box No:		**SIC Code:**	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 262 T
Waste Class Name: Detergents and soaps

Waste Detail(s)

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 212 L

Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Detail(s)

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	6 of 9	SE/237.8	80.2 / -1.75	Sanmina Corporation 500 March Road Ottawa ON K2K 0J9	GEN

Generator Info

Generator No:	ON5466737	***Choice of Contact:***	
Approval Years:	As of Nov 2021	***Contaminated Fac:***	
Status:	Registered	***MHSW Facility:***	
PO Box No:		***SIC Code:***	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Detail(s)

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 262 T
Waste Class Name: Detergents and soaps

Waste Detail(s)

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

12	***7 of 9***	***SE/237.8***	***80.2 / -1.75***	***SCI Brockville***	***GEN***

500 March Road
Ottawa ON

Generator Info

Generator No:	ON5466737	***Choice of Contact:***	
Approval Years:	As of Oct 2022	***Contaminated Fac:***	
Status:	Registered	***MHSW Facility:***	
PO Box No:		***SIC Code:***	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 262 T
Waste Class Name: DETERGENTS/SOAPS

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 263 C
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 148 T
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 232 I
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Generator Info as of Dec 2024

Generator No: ON5466737

Generator Company Name:	SCI Brockville
Street:	500 March Road
City:	Ottawa
Province State:	Ontario
Country:	Canada
Postal Code:	K2K0J9
Waste Class:	146 T,262 T,112 C,121 C,145 I,146 R,148 B,148 C,148 T,212 I,212 L,232 I,252 L,253 L,263 C,263 I,312 P,331 I, 263 L

Waste Class Decoded:

146 - OTHER SPECIFIED INORGANICS; 262 - DETERGENTS/SOAPS; 112 - ACID WASTE - HEAVY METALS; 121 - ALKALINE WASTES - HEAVY METALS; 145 - PAINT/PIGMENT/COATING RESIDUES; 146 - OTHER SPECIFIED INORGANICS; 148 - INORGANIC LABORATORY CHEMICALS; 148 - INORGANIC LABORATORY CHEMICALS; 148 - INORGANIC LABORATORY CHEMICALS; 212 - ALIPHATIC SOLVENTS; 212 - ALIPHATIC SOLVENTS; 232 - POLYMERIC RESINS; 252 - WASTE OILS & LUBRICANTS; 253 - EMULSIFIED OILS; 263 - ORGANIC LABORATORY CHEMICALS; 263 - ORGANIC LABORATORY CHEMICALS; 312 - PATHOLOGICAL WASTES; 331 - WASTE COMPRESSED GASES; 263 - ORGANIC LABORATORY CHEMICALS

2017 Generator Info

Gen No:	ON5466737	**Choice of Contact:**	CO_OFFICIAL
ID:	21608	**Phone No Official:**	613-886-6342 Ext.6342
Contaminated Fac:	N	**Phone No Admin:**	613-886-6192 Ext.
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	334410	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	Sanmina Corporation		
Gen Div:			
Gen Op Name:	Sanmina Corporation		
Gen Op Div:			
Site Adrs1:	500 March Road		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 0J9		
Site Country:	Canada		
Co Official:	Nonito Ferrer		
Co Admin:	Emma Mason		

2017 Generator Manifest

ID:	46220	**Sum Received Qty:**	45.0
Generator No:	ON5466737	**Waste Class Name:**	ALKALINE WASTES - HEAVY METALS
Receiver Type:	035	**Count Manifests:**	2
Waste Char:	C	**District:**	402
Waste Code:	121		

2017 Generator Manifest

ID:	46221	**Sum Received Qty:**	3555.0
Generator No:	ON5466737	**Waste Class Name:**	OTHER SPECIFIED INORGANICS
Receiver Type:	035	**Count Manifests:**	14
Waste Char:	T	**District:**	402
Waste Code:	146		

2017 Generator Manifest

ID:	46224	**Sum Received Qty:**	615.0

Generator No:	ON5466737	***Waste Class Name:***	WASTE OILS & LUBRICANTS
Receiver Type:	035	***Count Manifests:***	2
Waste Char:	T	***District:***	402
Waste Code:	252		

2017 Generator Manifest

ID:	46223	***Sum Received Qty:***	205.0
Generator No:	ON5466737	***Waste Class Name:***	ALIPHATIC SOLVENTS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	212		

2017 Generator Manifest

ID:	46222	***Sum Received Qty:***	260.0
Generator No:	ON5466737	***Waste Class Name:***	INORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	3
Waste Char:	T	***District:***	402
Waste Code:	148		

2017 Generator Manifest

ID:	46226	***Sum Received Qty:***	180.0
Generator No:	ON5466737	***Waste Class Name:***	ORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	3
Waste Char:	I	***District:***	402
Waste Code:	263		

2017 Generator Manifest

ID:	46225	***Sum Received Qty:***	4305.0
Generator No:	ON5466737	***Waste Class Name:***	DETERGENTS/SOAPS
Receiver Type:	035	***Count Manifests:***	12
Waste Char:	T	***District:***	402
Waste Code:	262		

2018 Generator Info

Gen No:	ON5466737	***Choice of Contact:***	CO_OFFICIAL
ID:	21779	***Phone No Official:***	6137930243 Ext.
Contaminated Fac:	N	***Phone No Admin:***	613-886-6192 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	334410	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	Sanmina Corporation		
Gen Div:			
Gen Op Name:	Sanmina Corporation		
Gen Op Div:			
Site Adrs1:	500 March Road		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 0J9		
Site Country:	Canada		
Co Official:	Mike Pimblett		
Co Admin:	Emma Mason		

2018 Generator Manifest

ID: 46086
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 146
Sum Received Qty: 3050.0
Waste Class Name: OTHER SPECIFIED INORGANICS
Count Manifests: 17
District: 402

2018 Generator Manifest

ID: 46088
Generator No: ON5466737
Receiver Type: 035
Waste Char: I
Waste Code: 212
Sum Received Qty: 410.0
Waste Class Name: ALIPHATIC SOLVENTS
Count Manifests: 2
District: 402

2018 Generator Manifest

ID: 46085
Generator No: ON5466737
Receiver Type: 035
Waste Char: C
Waste Code: 121
Sum Received Qty: 60.0
Waste Class Name: ALKALINE WASTES - HEAVY METALS
Count Manifests: 2
District: 402

2018 Generator Manifest

ID: 46090
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 262
Sum Received Qty: 4100.0
Waste Class Name: DETERGENTS/SOAPS
Count Manifests: 8
District: 402

2018 Generator Manifest

ID: 46087
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 148
Sum Received Qty: 1435.0
Waste Class Name: INORGANIC LABORATORY CHEMICALS
Count Manifests: 4
District: 402

2018 Generator Manifest

ID: 46089
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 252
Sum Received Qty: 1025.0
Waste Class Name: WASTE OILS & LUBRICANTS
Count Manifests: 2
District: 402

2019 Generator Info

Gen No: ON5466737
ID: 21837
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 334410
NAICS Code2:
NAICS Code3:
Gen Name: Sanmina Corporation
Gen Div:
Gen Op Name: Sanmina Corporation
Choice of Contact: CO_OFFICIAL
Phone No Official: 6137930243 Ext.
Phone No Admin: 613-886-6192 Ext.
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402

Gen Op Div:
Site Adrs1: 500 March Road
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Ottawa
Province Out:
Site Postal Code: K2K 0J9
Site Country: Canada
Co Official: Mike Pimblett
Co Admin: Emma Mason

2019 Generator Manifest

ID: 45778
Generator No: ON5466737
Receiver Type: 035
Waste Char: I
Waste Code: 212
Sum Received Qty: 410.0
Waste Class Name: ALIPHATIC SOLVENTS
Count Manifests: 2
District: 402

2019 Generator Manifest

ID: 45779
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 252
Sum Received Qty: 1435.0
Waste Class Name: WASTE OILS & LUBRICANTS
Count Manifests: 3
District: 402

2019 Generator Manifest

ID: 45780
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 262
Sum Received Qty: 5500.0
Waste Class Name: DETERGENTS/SOAPS
Count Manifests: 12
District: 402

2019 Generator Manifest

ID: 45775
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 145
Sum Received Qty: 1410.0
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES
Count Manifests: 4
District: 402

2019 Generator Manifest

ID: 45777
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 148
Sum Received Qty: 815.0
Waste Class Name: INORGANIC LABORATORY CHEMICALS
Count Manifests: 4
District: 402

2019 Generator Manifest

ID: 45776
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 146
Sum Received Qty: 4237.0
Waste Class Name: OTHER SPECIFIED INORGANICS
Count Manifests: 18
District: 402

2020 Generator Info

Gen No:	ON5466737	***Choice of Contact:***	CO_OFFICIAL
ID:	21569	***Phone No Official:***	6137930243 Ext.
Contaminated Fac:	N	***Phone No Admin:***	613-886-6111 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	334410	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	Sanmina Corporation		
Gen Div:			
Gen Op Name:	Sanmina Corporation		
Gen Op Div:			
Site Adrs1:	500 March Road		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 0J9		
Site Country:	Canada		
Co Official:	Mike Pimblett		
Co Admin:	Tho Le		

2020 Generator Manifest

ID:	42340	***Sum Received Qty:***	3030.0
Generator No:	ON5466737	***Waste Class Name:***	INORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	9
Waste Char:	T	***District:***	402
Waste Code:	148		

2020 Generator Manifest

ID:	42345	***Sum Received Qty:***	4450.0
Generator No:	ON5466737	***Waste Class Name:***	DETERGENTS/SOAPS
Receiver Type:	035	***Count Manifests:***	10
Waste Char:	T	***District:***	402
Waste Code:	262		

2020 Generator Manifest

ID:	42347	***Sum Received Qty:***	20.0
Generator No:	ON5466737	***Waste Class Name:***	WASTE COMPRESSED GASES
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	331		

2020 Generator Manifest

ID:	42338	***Sum Received Qty:***	1365.0
Generator No:	ON5466737	***Waste Class Name:***	PAINT/PIGMENT/COATING RESIDUES
Receiver Type:	035	***Count Manifests:***	4
Waste Char:	T	***District:***	402
Waste Code:	145		

2020 Generator Manifest

ID:	42342	***Sum Received Qty:***	20.0
Generator No:	ON5466737	***Waste Class Name:***	ALIPHATIC SOLVENTS

Receiver Type:	035	***Count Manifests:***	1
Waste Char:	L	***District:***	402
Waste Code:	212		

2020 Generator Manifest

ID:	42346	***Sum Received Qty:***	205.0
Generator No:	ON5466737	***Waste Class Name:***	ORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	263		

2020 Generator Manifest

ID:	42339	***Sum Received Qty:***	2420.0
Generator No:	ON5466737	***Waste Class Name:***	OTHER SPECIFIED INORGANICS
Receiver Type:	035	***Count Manifests:***	15
Waste Char:	T	***District:***	402
Waste Code:	146		

2020 Generator Manifest

ID:	42341	***Sum Received Qty:***	365.0
Generator No:	ON5466737	***Waste Class Name:***	ALIPHATIC SOLVENTS
Receiver Type:	035	***Count Manifests:***	3
Waste Char:	I	***District:***	402
Waste Code:	212		

2020 Generator Manifest

ID:	42343	***Sum Received Qty:***	20.0
Generator No:	ON5466737	***Waste Class Name:***	WASTE OILS & LUBRICANTS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	L	***District:***	402
Waste Code:	252		

2020 Generator Manifest

ID:	42344	***Sum Received Qty:***	200.0
Generator No:	ON5466737	***Waste Class Name:***	WASTE OILS & LUBRICANTS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	T	***District:***	402
Waste Code:	252		

2020 Generator Manifest

ID:	42337	***Sum Received Qty:***	20.0
Generator No:	ON5466737	***Waste Class Name:***	ACID WASTE - HEAVY METALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	C	***District:***	402
Waste Code:	112		

2021 Generator Info

Gen No:	ON5466737	***Choice of Contact:***	CO_OFFICIAL
ID:	21788	***Phone No Official:***	6137930243 Ext.
Contaminated Fac:	N	***Phone No Admin:***	613-886-6111 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	334410	***County Out:***	
NAICS Code2:		***District:***	402

NAICS Code3:
Gen Name: Sanmina Corporation
Gen Div:
Gen Op Name: Sanmina Corporation
Gen Op Div:
Site Adrs1: 500 March Road
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Ottawa
Province Out:
Site Postal Code: K2K 0J9
Site Country: Canada
Co Official: Mike Pimblett
Co Admin: Tho Le

2021 Generator Manifest

ID: 43838
Generator No: ON5466737
Receiver Type: 035
Waste Char: I
Waste Code: 212
Sum Received Qty: 400.0
Waste Class Name: ALIPHATIC SOLVENTS
Count Manifests: 1
District: 402

2021 Generator Manifest

ID: 43845
Generator No: ON5466737
Receiver Type: 035
Waste Char: I
Waste Code: 331
Sum Received Qty: 8.0
Waste Class Name: WASTE COMPRESSED GASES
Count Manifests: 1
District: 402

2021 Generator Manifest

ID: 43837
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 148
Sum Received Qty: 1820.0
Waste Class Name: INORGANIC LABORATORY CHEMICALS
Count Manifests: 4
District: 402

2021 Generator Manifest

ID: 43840
Generator No: ON5466737
Receiver Type: 035
Waste Char: T
Waste Code: 252
Sum Received Qty: 810.0
Waste Class Name: WASTE OILS & LUBRICANTS
Count Manifests: 2
District: 402

2021 Generator Manifest

ID: 43843
Generator No: ON5466737
Receiver Type: 035
Waste Char: I
Waste Code: 263
Sum Received Qty: 48.0
Waste Class Name: ORGANIC LABORATORY CHEMICALS
Count Manifests: 3
District: 402

2021 Generator Manifest

ID: 43835
Generator No: ON5466737
Sum Received Qty: 700.0
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Receiver Type:	035	**Count Manifests:**	3
Waste Char:	T	**District:**	402
Waste Code:	145		

2021 Generator Manifest

ID:	43844	**Sum Received Qty:**	20.0
Generator No:	ON5466737	**Waste Class Name:**	ORGANIC LABORATORY CHEMICALS
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	L	**District:**	402
Waste Code:	263		

2021 Generator Manifest

ID:	43836	**Sum Received Qty:**	1975.0
Generator No:	ON5466737	**Waste Class Name:**	OTHER SPECIFIED INORGANICS
Receiver Type:	035	**Count Manifests:**	8
Waste Char:	T	**District:**	402
Waste Code:	146		

2021 Generator Manifest

ID:	43841	**Sum Received Qty:**	160.0
Generator No:	ON5466737	**Waste Class Name:**	EMULSIFIED OILS
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	L	**District:**	402
Waste Code:	253		

2021 Generator Manifest

ID:	43842	**Sum Received Qty:**	1415.0
Generator No:	ON5466737	**Waste Class Name:**	DETERGENTS/SOAPS
Receiver Type:	035	**Count Manifests:**	5
Waste Char:	T	**District:**	402
Waste Code:	262		

2021 Generator Manifest

ID:	43839	**Sum Received Qty:**	180.0
Generator No:	ON5466737	**Waste Class Name:**	WASTE OILS & LUBRICANTS
Receiver Type:	035	**Count Manifests:**	2
Waste Char:	L	**District:**	402
Waste Code:	252		

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12 | ***8 of 9*** | ***SE/237.8*** | ***80.2 / -1.75*** | ***SANMINA***
500 MARCH ROAD
KANATA ON K2K 0J9 | ***NPR2***

NPRI ID:	29763	**Latitude:**	45.34504
Facility ID:	247290;442905	**Longitude:**	-75.91875
Facility Name:	SANMINA		

Note:

Substances included on NPRI reports for this NPRI ID are summarized below in the NPRI ID Substances Summary section. Substances listed in the Substances Summary are included on the basis of NPRI ID only. For entities (NPRI ID) with mobile plants and/or more than one facility location, substances listed above may or may not have been reported for specific facilities/mobile locations. The list of substances additionally includes those which have been included on the NPRI report with an unknown quantity or a quantity of 0.

For specific details about substance quantities, years, release/transfer/disposal methods, the reader is referred the facility report:

https://pollution-waste.canada.ca/national-release-inventory/?fromYear=1993&toYear=2023&name=29763

NPRI ID Substances Summary

CAS No:	NA - 08	***Is PAH?:***	FALSE
Is VOC?:	FALSE	***NPRI:***	TRUE
Is DF?:	FALSE		
Name English:	Lead (and its compounds)		
Name French:	Plomb (et ses composés)		
Sort English:	Lead (and its compounds)		
Sort French:	Plomb (et ses composés)		

CAS No:	N/A (Speciated VOCs)	***Is PAH?:***	FALSE
Is VOC?:	FALSE	***NPRI:***	TRUE
Is DF?:	FALSE		
Name English:	Speciated VOCs (62 substances)		
Name French:	COVs différenciés (62 substances)		
Sort English:	Speciated VOCs (62 substances)		
Sort French:	COVs différenciés (62 substances)		

Geographic Location

Report Year:	-1	***Forward Sort Area:***	K2K
Census Subdiv ID:	3506008	***DLS Description:***	
Ecozone ID:	8	***NTS Description:***	B-014-E/031-G-5
Water Survey ID:	2	***Province Code:***	ON
SOMA:	FALSE	***Datum:***	1983.0
ON PEMA:	FALSE	***Latitude:***	45.34504
QC PEMA:	FALSE	***Longitude:***	-75.91875
Quebec Windsor Corr:	FALSE		

NPRI ID Facility ID

NPRI ID:	29763
Facility ID:	247290

Facility

Facility ID:	247290	***IDM ID:***	29730
Portable:	FALSE	***AB Approval ID:***	0
NAICS Primary:	334290	***GHGRP ID:***	0
NAICS Secondary:	0	***ON GHGRP ID:***	0
NAICS Tertiary:	0		
Facility Name:	Sanmina Ottawa (March)		
Website:	www.sanmina.com		

Address

Address1:	500 March Road
Address2:	
City:	OTTAWA
Postal Zip:	K2W0C9
Prov:	

Address Geographic

Latitude:	45.345	***Datum:***	1983
Longitude:	-75.9188	***Land Survey:***	
UTM Easting:	0.000000	***Topograph:***	
UTM Northing:	0.000000	***Additional Info:***	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	334290	***Start Date:***	2022
Record Year:	2022	***End Date:***	2026
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other communications equipment manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de matériel de communication.

NAICS Code:	334290	***Start Date:***	2007
Record Year:	2007	***End Date:***	2011
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe et dont l'activité principale est la fabrication de matériel de communication.

NAICS Code:	334290	***Start Date:***	1993
Record Year:	1997	***End Date:***	2001
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe et dont l'activité principale est la fabrication de matériel de communication.

NAICS Code:	334290	***Start Date:***	2012
Record Year:	2012	***End Date:***	2016
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other communications equipment manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de matériel de communication.

NAICS Code:	334290	***Start Date:***	2002
Record Year:	2002	***End Date:***	2006
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe et dont l'activité principale est la fabrication de matériel de communication.

NAICS Code:	334290	***Start Date:***	2017
Record Year:	2017	***End Date:***	2021
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other communications equipment manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de matériel de communication.

NPRI Report

Report ID:	93223	***No of Employees:***	447
Report Year:	2018	***Is Compressor:***	
Company ID:	120773	***Is NPRI Part 4:***	
SWR Report ID:	153283	***Is Battery:***	
Repor Type ID:	1	***Corres Lang ID:***	1
New Reporter:	FALSE	***Submit Date:***	2019-06-04 11:08:51.6166667

Company

Company Name:	SCI-Brockville Corporation
DUNS No:	0
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138393053
First Name:	Jenna	***Extension:***	274
Last Name:	Boyce	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Environmental Engineer		
Language:	1		
Email:	jboyce@blumetric.ca		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866187
First Name:	Geoff	***Extension:***	
Last Name:	Beale	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Plant Manager		
Language:	1		
Email:	geoff.beale@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report

Report ID:	93220	***No of Employees:***	396
Report Year:	2017	***Is Compressor:***	
Company ID:	120773	***Is NPRI Part 4:***	
SWR Report ID:	112577	***Is Battery:***	
Repor Type ID:	1	***Corres Lang ID:***	1
New Reporter:	FALSE	***Submit Date:***	2019-06-04 11:08:17.2966667

Company

Company Name:	SCI-Brockville Corporation
DUNS No:	0
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		

Language: 1
Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type: NPRI
First Name: Steve
Last Name: Greene
Company Name: BluMetric Environmental Inc.
Description En: Public Contact
Description Fr: Responsable des renseignements au public
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name:
Description En:
Description Fr:
Position: Quality Manager
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name:
Description En:
Description Fr:
Position: Quality Manager
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name: BluMetric Environmental Inc.
Description En:
Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name: BluMetric Environmental Inc.
Description En:
Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report Contact

Contact Type:		***Phone:***	6138393053
First Name:	Jenna	***Extension:***	274
Last Name:	Boyce	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Environmental Engineer		
Language:	1		
Email:	jboyce@blumetric.ca		

NPRI Report Contact

Contact Type:		***Phone:***	6138866187
First Name:	Geoff	***Extension:***	
Last Name:	Beale	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Plant Manager		
Language:	1		
Email:	geoff.beale@sanmina.com		

NPRI Report

Report ID:	93219	***No of Employees:***	326
Report Year:	2016	***Is Compressor:***	
Company ID:	120773	***Is NPRI Part 4:***	
SWR Report ID:	99217	***Is Battery:***	
Repor Type ID:	1	***Corres Lang ID:***	1
New Reporter:	FALSE	***Submit Date:***	2018-07-12 09:02:10.6166667

Company

Company Name:	SCI-Brockville Corporation
DUNS No:	0
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		***Phone:***	6138866187
First Name:	Geoff	***Extension:***	
Last Name:	Beale	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Plant Manager		
Language:	1		
Email:	geoff.beale@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			

Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type: ***Phone:*** 6138866332
First Name: Steve ***Extension:***
Last Name: Greene ***Fax:***
Company Name: BluMetric Environmental Inc.
Description En:
Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type: ***Phone:*** 6138393053
First Name: Jenna ***Extension:*** 274
Last Name: Boyce ***Fax:***
Company Name:
Description En:
Description Fr:
Position: Environmental Engineer
Language: 1
Email: jboyce@blumetric.ca

NPRI Report Contact

Contact Type: NPRI ***Phone:*** 6138866332
First Name: Steve ***Extension:***
Last Name: Greene ***Fax:***
Company Name: BluMetric Environmental Inc.
Description En: Public Contact
Description Fr: Responsable des renseignements au public
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type: ***Phone:*** 6138866332
First Name: Steve ***Extension:***
Last Name: Greene ***Fax:***
Company Name: BluMetric Environmental Inc.
Description En:
Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type: ***Phone:*** 6138866332
First Name: Steve ***Extension:***
Last Name: Greene ***Fax:***
Company Name:
Description En:
Description Fr:
Position: Quality Manager

Language: 1
Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name:
Description En:
Description Fr:
Position: Quality Manager
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report

Report ID: 20561
Report Year: 2015
Company ID: 113408
SWR Report ID: 90514
Repor Type ID: 1
New Reporter: TRUE
No of Employees: 492
Is Compressor:
Is NPRI Part 4:
Is Battery:
Corres Lang ID: 1
Submit Date: 2018-05-22 00:00:00.0000000

Company

Company Name: SCI-Brockville Corporation
DUNS No: 0
Trade Name En:
Trade Name Fr:
Website: www.sanmina.com

NPRI Report Comment

Description En: General comments about the facility
Description Fr: Commentaires généraux à propos de l'installation
Comment: The Facility opened in 2015, with Lead operations commencing in July 2015.
Note:

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name: BluMetric Environmental Inc.
Description En:
Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Email: steve.greene@sanmina.com
Phone: 6138866332
Extension:
Fax:

NPRI Report Contact

Contact Type:
First Name: Steve
Last Name: Greene
Company Name: BluMetric Environmental Inc.
Description En:
Description Fr:
Position: Director of Quality, Company Security Officer and Designated Official
Language: 1
Phone: 6138866332
Extension:
Fax:

Email: steve.greene@sanmina.com

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI ID Facility ID

NPRI ID:	29763
Facility ID:	442905

Facility

Facility ID:	442905	***IDM ID:***	63031
Portable:	FALSE	***AB Approval ID:***	
NAICS Primary:	334220	***GHGRP ID:***	
NAICS Secondary:		***ON GHGRP ID:***	

NAICS Tertiary:
Facility Name: Sanmina
Website:

Address

Address1: 500 March Road
Address2:
City: Kanata
Postal Zip: K2K 0J9
Prov:

Address Geographic

Latitude: 45.34518
Longitude: -75.97833
UTM Easting: 0.000000
UTM Northing: 0.000000
UTM Zone: 0
Datum:
Land Survey:
Topograph:
Additional Info:

Primary NAICS Details

NAICS Code: 334220
Record Year: 2012
Start Date: 2012
End Date: 2016
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and television broadcasting and wireless communications equipment manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NAICS Code: 334220
Record Year: 2017
Start Date: 2017
End Date: 2021
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and television broadcasting and wireless communications equipment manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NAICS Code: 334220
Record Year: 2022
Start Date: 2022
End Date: 2026
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication

NAICS Title En: Radio and television broadcasting and wireless communications equipment manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NAICS Code: 334220 ***Start Date:*** 1993
Record Year: 1997 ***End Date:*** 2001
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NAICS Code: 334220 ***Start Date:*** 2002
Record Year: 2002 ***End Date:*** 2006
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NAICS Code: 334220 ***Start Date:*** 2007
Record Year: 2007 ***End Date:*** 2011
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NPRI Report

Report ID:	335879	***No of Employees:***	413
Report Year:	2022	***Is Compressor:***	
Company ID:	177976	***Is NPRI Part 4:***	
SWR Report ID:	31819	***Is Battery:***	
Repor Type ID:	8	***Corres Lang ID:***	1
New Reporter:	TRUE	***Submit Date:***	2023-03-16 11:01:11.1990178

Company

Company Name:	SCI Brockville
DUNS No:	
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		***Phone:***	613-886-6111
First Name:	Tho	***Extension:***	
Last Name:	Le	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Facilities manager		
Language:	1		
Email:	tho.le@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	613-886-6111
First Name:	Tho	***Extension:***	
Last Name:	Le	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Facilities manager		
Language:	1		
Email:	tho.le@sanmina.com		

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	613-886-6111
First Name:	Tho	***Extension:***	
Last Name:	Le	***Fax:***	
Company Name:			
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Facilities manager		
Language:	1		
Email:	tho.le@sanmina.com		

Alternative Location Info

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

Facility ID:	247290
Facility Name:	SANMINA OTTAWA (MARCH)
Address1:	500 MARCH ROAD
City:	OTTAWA
Postal ZIP:	K2W0C9
Province EN:	ON
Latitude:	45.34504
Longitude:	-75.91875

Alternative Location Info

Facility ID:	442905
Facility Name:	SANMINA
Address1:	500 MARCH ROAD
City:	KANATA
Postal ZIP:	K2K 0J9
Province EN:	ON
Latitude:	45.34504
Longitude:	-75.91875

Alternative Location Info

Facility ID:	442905
Facility Name:	SANMINA OTTAWA (MARCH)
Address1:	500 MARCH ROAD
City:	OTTAWA
Postal ZIP:	K2W0C9
Province EN:	ON
Latitude:	45.34504
Longitude:	-75.91875

Alternative Location Info

Facility ID:	247290
Facility Name:	SANMINA
Address1:	500 MARCH ROAD
City:	KANATA
Postal ZIP:	K2K 0J9
Province EN:	ON
Latitude:	45.34504
Longitude:	-75.91875

12	9 of 9	SE/237.8	80.2 / -1.75	SANMINA 500 MARCH ROAD KANATA ON K2K 0J9	PFHA

NPRI ID:	29763
Facility ID:	247290;442905
Latitude:	45.34504
Longitude:	-75.91875
Note:	Substances included on NPRI reports for this NPRI ID are summarized below in the NPRI ID Substances Summary section. Substances listed in the Substances Summary are included on the basis of NPRI ID only. For entities (NPRI ID) with mobile plants and/or more than one facility location, substances listed above may or may not have been reported for specific facilities/mobile locations. The list of substances additionally includes those which have been included on the NPRI report with an unknown quantity or a quantity of 0. For specific details about substance quantities, years, release/transfer/disposal methods, the reader is referred the facility report: https://pollution-waste.canada.ca/national-release-inventory/?fromYear=1993&toYear=2023&name=29763

Alternative Location Info

Facility ID: 247290
Facility Name: SANMINA OTTAWA (MARCH)
Address1: 500 MARCH ROAD
City: OTTAWA
Postal ZIP: K2W0C9
Province EN: ON
Latitude: 45.34504
Longitude: -75.91875

Alternative Location Info

Facility ID: 442905
Facility Name: SANMINA
Address1: 500 MARCH ROAD
City: KANATA
Postal ZIP: K2K 0J9
Province EN: ON
Latitude: 45.34504
Longitude: -75.91875

Alternative Location Info

Facility ID: 442905
Facility Name: SANMINA OTTAWA (MARCH)
Address1: 500 MARCH ROAD
City: OTTAWA
Postal ZIP: K2W0C9
Province EN: ON
Latitude: 45.34504
Longitude: -75.91875

Alternative Location Info

Facility ID: 247290
Facility Name: SANMINA
Address1: 500 MARCH ROAD
City: KANATA
Postal ZIP: K2K 0J9
Province EN: ON
Latitude: 45.34504
Longitude: -75.91875

NPRI ID Substances Summary

CAS No: NA - 08
Digits:
Decimal Points:
Name English: Lead (and its compounds)
Name French: Plomb (et ses composés)
Sort English: Lead (and its compounds)
Sort French: Plomb (et ses composés)
Is VOC?: FALSE
Is DF?: FALSE
Is PAH?: FALSE

CAS No: N/A (Speciated VOCs)
Digits:
Decimal Points:
Name English: Speciated VOCs (62 substances)
Name French: COVs différenciés (62 substances)
Sort English: Speciated VOCs (62 substances)
Sort French: COVs différenciés (62 substances)
Is VOC?: FALSE
Is DF?: FALSE
Is PAH?: FALSE

Geographic Location

Report Year:	-1	**Forward Sort Area:**	K2K
Census Subdiv ID:	3506008	**DLS Description:**	
Ecozone ID:	8	**NTS Description:**	B-014-E/031-G-5
Water Survey ID:	2	**Province Code:**	ON
SOMA:	FALSE	**Datum:**	1983.0
ON PEMA:	FALSE	**Latitude:**	45.34504
QC PEMA:	FALSE	**Longitude:**	-75.91875
QC Windsor Corridr:	FALSE		

NPRI ID Facility ID

NPRI ID:	29763
Facility ID:	247290

Facility

IDM ID:	29730	**Portable:**	FALSE
AB Approval ID:	0	**NAICS Primary:**	334290
GHGRP ID:	0	**NAICS Secondary:**	0
ON GHGRP ID:	0	**NAICS Tertiary:**	0
Facility Name:	Sanmina Ottawa (March)		
Website:	www.sanmina.com		

Address

Address1:	500 March Road
Address2:	
City:	OTTAWA
Postal Zip:	K2W0C9
Prov:	

Address Geographic

Datum:	1983	**UTM Zone:**	0
Latitude:	45.345	**UTM Easting:**	0.000000
Longitude:	-75.9188	**UTM Northing:**	0.000000
Land Survey:			
Topograph:			
Additional Info:			

Primary NAICS Details

Key Indus Sectr ID:	11	**Start Date:**	2007
NAICS Code:	334290	**End Date:**	2011
Record Year:	2007		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe et dont l'activité principale est la fabrication de matériel de communication.

Key Indus Sectr ID:	11	***Start Date:***	2012
NAICS Code:	334290	***End Date:***	2016
Record Year:	2012		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other communications equipment manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de matériel de communication.

Key Indus Sectr ID:	11	***Start Date:***	2017
NAICS Code:	334290	***End Date:***	2021
Record Year:	2017		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other communications equipment manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de matériel de communication.

Key Indus Sectr ID:	11	***Start Date:***	1993
NAICS Code:	334290	***End Date:***	2001
Record Year:	1997		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe et dont l'activité principale est la fabrication de matériel de communication.

Key Indus Sectr ID:	11	***Start Date:***	2002
NAICS Code:	334290	***End Date:***	2006
Record Year:	2002		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe et dont l'activité principale est la fabrication de matériel de communication.

Key Indus Sectr ID:	11	***Start Date:***	2022
NAICS Code:	334290	***End Date:***	2026
Record Year:	2022		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Other communications equipment manufacturing		
NAICS Title Fr:	Fabrication d'autres types de matériel de communication		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing communications equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de matériel de communication.

NPRI Report

Report ID:	93223	***No of Employees:***	447
Report Year:	2018	***Is Compressor:***	
Company ID:	120773	***Is NPRI Part 4:***	
SWR Report ID:	153283	***Is Battery:***	
Repor Type ID:	1	***Corresp Lang ID:***	1
New Reporter:	FALSE	***Submit Date:***	2019-06-04 11:08:51.6166667

Company

DUNS No:	0
Company Name:	SCI-Brockville Corporation
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866187
First Name:	Geoff	***Extension:***	
Last Name:	Beale	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Plant Manager		
Language:	1		
Email:	geoff.beale@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138393053
First Name:	Jenna	***Extension:***	274
Last Name:	Boyce	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Environmental Engineer		
Language:	1		
Email:	jboyce@blumetric.ca		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	

Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report

Report ID:	93220	***No of Employees:***	396
Report Year:	2017	***Is Compressor:***	
Company ID:	120773	***Is NPRI Part 4:***	
SWR Report ID:	112577	***Is Battery:***	
Repor Type ID:	1	***Corresp Lang ID:***	1
New Reporter:	FALSE	***Submit Date:***	2019-06-04 11:08:17.2966667

Company

DUNS No:	0
Company Name:	SCI-Brockville Corporation
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138393053
First Name:	Jenna	***Extension:***	274
Last Name:	Boyce	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Environmental Engineer		
Language:	1		
Email:	jboyce@blumetric.ca		

NPRI Report Contact

Contact Type:		**Phone:**	6138866187
First Name:	Geoff	**Extension:**	
Last Name:	Beale	**Fax:**	
Company Name:			
Description En:			
Description Fr:			
Position:	Plant Manager		
Language:	1		
Email:	geoff.beale@sanmina.com		

NPRI Report

Report ID:	93219	**No of Employees:**	326
Report Year:	2016	**Is Compressor:**	
Company ID:	120773	**Is NPRI Part 4:**	
SWR Report ID:	99217	**Is Battery:**	
Repor Type ID:	1	**Corresp Lang ID:**	1
New Reporter:	FALSE	**Submit Date:**	2018-07-12 09:02:10.6166667

Company

DUNS No:	0
Company Name:	SCI-Brockville Corporation
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		**Phone:**	6138866332
First Name:	Steve	**Extension:**	
Last Name:	Greene	**Fax:**	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		**Phone:**	6138866332
First Name:	Steve	**Extension:**	
Last Name:	Greene	**Fax:**	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		**Phone:**	6138393053
First Name:	Jenna	**Extension:**	274
Last Name:	Boyce	**Fax:**	
Company Name:			
Description En:			
Description Fr:			
Position:	Environmental Engineer		
Language:	1		
Email:	jboyce@blumetric.ca		

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866187
First Name:	Geoff	***Extension:***	
Last Name:	Beale	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Plant Manager		
Language:	1		
Email:	geoff.beale@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report

Report ID:	20561	***No of Employees:***	492
Report Year:	2015	***Is Compressor:***	
Company ID:	113408	***Is NPRI Part 4:***	
SWR Report ID:	90514	***Is Battery:***	
Repor Type ID:	1	***Corresp Lang ID:***	1
New Reporter:	TRUE	***Submit Date:***	2018-05-22 00:00:00.0000000

Company

DUNS No:	0
Company Name:	SCI-Brockville Corporation
Trade Name En:	
Trade Name Fr:	
Website:	www.sanmina.com

NPRI Report Comment

Description En:	General comments about the facility
Description Fr:	Commentaires généraux à propos de l'installation
Comment:	The Facility opened in 2015, with Lead operations commencing in July 2015.
Note:	

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		***Phone:***	6138866332
First Name:	Steve	***Extension:***	
Last Name:	Greene	***Fax:***	
Company Name:			
Description En:			
Description Fr:			
Position:	Quality Manager		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		**Phone:**	6138866332
First Name:	Steve	**Extension:**	
Last Name:	Greene	**Fax:**	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	6138866332
First Name:	Steve	**Extension:**	
Last Name:	Greene	**Fax:**	
Company Name:	BluMetric Environmental Inc.		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI Report Contact

Contact Type:		**Phone:**	6138866332
First Name:	Steve	**Extension:**	
Last Name:	Greene	**Fax:**	
Company Name:	BluMetric Environmental Inc.		
Description En:			
Description Fr:			
Position:	Director of Quality, Company Security Officer and Designated Official		
Language:	1		
Email:	steve.greene@sanmina.com		

NPRI ID Facility ID

NPRI ID:	29763
Facility ID:	442905

Facility

IDM ID:	63031	**Portable:**	FALSE
AB Approval ID:		**NAICS Primary:**	334220
GHGRP ID:		**NAICS Secondary:**	
ON GHGRP ID:		**NAICS Tertiary:**	
Facility Name:	Sanmina		
Website:			

Address

Address1:	500 March Road
Address2:	
City:	Kanata
Postal Zip:	K2K 0J9
Prov:	

Address Geographic

Datum:		**UTM Zone:**	0
Latitude:	45.34518	**UTM Easting:**	0.000000

Longitude:	-75.97833	**UTM Northing:**	0.000000
Land Survey:			
Topograph:			
Additional Info:			

Primary NAICS Details

Key Indus Sectr ID:	11	**Start Date:**	1993
NAICS Code:	334220	**End Date:**	2001
Record Year:	1997		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil		

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

Key Indus Sectr ID:	11	**Start Date:**	2002
NAICS Code:	334220	**End Date:**	2006
Record Year:	2002		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil		

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

Key Indus Sectr ID:	11	**Start Date:**	2007
NAICS Code:	334220	**End Date:**	2011
Record Year:	2007		
Key Indus Sector En:	Other Manufacturing		
Key Indus Sector Fr:	Autres fabrication		
NAICS Title En:	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing		
NAICS Title Fr:	Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil		

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

Key Indus Sectr ID: 11 ***Start Date:*** 2012
NAICS Code: 334220 ***End Date:*** 2016
Record Year: 2012
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and television broadcasting and wireless communications equipment manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

Key Indus Sectr ID: 11 ***Start Date:*** 2017
NAICS Code: 334220 ***End Date:*** 2021
Record Year: 2017
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and television broadcasting and wireless communications equipment manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

Key Indus Sectr ID: 11 ***Start Date:*** 2022
NAICS Code: 334220 ***End Date:*** 2026
Record Year: 2022
Key Indus Sector En: Other Manufacturing
Key Indus Sector Fr: Autres fabrication
NAICS Title En: Radio and television broadcasting and wireless communications equipment manufacturing
NAICS Title Fr: Fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil

NAICS Description En:

This Canadian industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communication equipment.

NAICS Description Fr:

Cette classe canadienne comprend les établissements dont l'activité principale est la fabrication de matériel de radiodiffusion, de télédiffusion et de communication sans fil.

NPRI Report

Report ID: 335879 ***No of Employees:*** 413

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

Report Year:	2022	**Is Compressor:**	
Company ID:	177976	**Is NPRI Part 4:**	
SWR Report ID:	31819	**Is Battery:**	
Repor Type ID:	8	**Corresp Lang ID:**	1
New Reporter:	TRUE	**Submit Date:**	2023-03-16 11:01:11.1990178

Company

DUNS No:	
Company Name:	SCI Brockville
Trade Name En:	
Trade Name Fr:	
Website:	

NPRI Report Contact

Contact Type:		**Phone:**	613-886-6111
First Name:	Tho	**Extension:**	
Last Name:	Le	**Fax:**	
Company Name:			
Description En:			
Description Fr:			
Position:	Facilities manager		
Language:	1		
Email:	tho.le@sanmina.com		

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	613-886-6111
First Name:	Tho	**Extension:**	
Last Name:	Le	**Fax:**	
Company Name:			
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	Facilities manager		
Language:	1		
Email:	tho.le@sanmina.com		

NPRI Report Contact

Contact Type:		**Phone:**	613-886-6111
First Name:	Tho	**Extension:**	
Last Name:	Le	**Fax:**	
Company Name:			
Description En:			
Description Fr:			
Position:	Facilities manager		
Language:	1		
Email:	tho.le@sanmina.com		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 7	W/240.2	84.6 / 2.64	ROHDE & SCHWARZ CANADA 555 MARCH RD KANATA ON K2K 2M5	SCT

Established:	1970
Plant Size (ft²):	6000
Employment:	17

--Details--

Description:	RADIO AND TELEVISION BROADCASTING AND COMMUNICATIONS EQUIPMENT
SIC/NAICS Code:	3663

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

Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS AND INSTRUMENTS
SIC/NAICS Code: 3812

---

13 **2 of 7** **W/240.2** **84.6 / 2.64** **TEKTRONIX CANADA INC.**
555 MARCH RD
KANATA ON K2K 2M5 **SCT**

Established: 0000
Plant Size (ft²): 0
Employment: 8

--Details--
Description: COMPUTERS AND COMPUTER PERIPHERAL EQUIPMENT AND SOFTWARE
SIC/NAICS Code: 5045

Description: ELECTRONIC PARTS AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5065

---

13 **3 of 7** **W/240.2** **84.6 / 2.64** **Rohde & Schwarz Canada Inc.**
555 March Rd
Kanata ON K2K 2M5 **SCT**

Established: 1970
Plant Size (ft²): 8000
Employment: 23

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

---

13 **4 of 7** **W/240.2** **84.6 / 2.64** **Localcity**
555 March Rd
Kanata ON K2K 2M5 **SCT**

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

---

13 **5 of 7** **W/240.2** **84.6 / 2.64** **Local City Inc.**
555 March Rd
Kanata ON K2K 2M5 **SCT**

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

Established: 1996
Plant Size (ft²):
Employment: 12

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

13	6 of 7	W/240.2	84.6 / 2.64	ASAP-CD Solutions 555 March Rd Ottawa ON K2K 2M5	SCT

Established: 1996
Plant Size (ft²):
Employment: 7

--Details--
Description: Commercial Screen Printing
SIC/NAICS Code: 323113

Description: Other Printing
SIC/NAICS Code: 323119

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Sound Recording Studios
SIC/NAICS Code: 512240

13	7 of 7	W/240.2	84.6 / 2.64	555 March Road Ottawa (Kanata) ON	EHS

Order No: 20050715001
Status: C
Report Type: Custom Report
Report Date: 7/25/2005
Date Received: 7/15/2005
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.922669
Y: 45.347131

14	1 of 7	WSW/240.7	84.9 / 2.94	TeleWatch Monitoring Services 84 Hines Rd Suite 130 Kanata ON K2K 3G3	SCT

Established: 2003
Plant Size (ft²):
Employment:

--Details--
Description: Other Scientific and Technical Consulting Services
SIC/NAICS Code: 541690

Description: Computer and Peripheral Equipment Manufacturing

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

SIC/NAICS Code: 334110

Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

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14 | 2 of 7 | WSW/240.7 | 84.9 / 2.94 | **Metconnex Inc.**
84 Hines Road Suite 260
Ottawa ON | GEN

Generator Info

Generator No: ON3229484
Approval Years: 06
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: All Other Miscellaneous Manufacturing

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 339990

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

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14 | 3 of 7 | WSW/240.7 | 84.9 / 2.94 | **Sidense Corp.**
84 Hines Rd Suite 260
Kanata ON K2K 3G3 | SCT

Established: 01-AUG-04
Plant Size (ft²):
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

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14 | 4 of 7 | WSW/240.7 | 84.9 / 2.94 | **Skyworks Solutions (Test Lab)**
84 Hines Rd, Suite 100
Kanata ON K2K 3G3 | GEN

Generator Info

Generator No: ON9560250
Approval Years: 2016
Status:
PO Box No:

Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 417310

Country: Canada
Co Admin:
Phone No Admin:
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	5 of 7	WSW/240.7	84.9 / 2.94	**Skyworks Solutions Inc** **100-84 Hines Road** **Kanata ON K2K 3G3**	GEN

Generator Info

Generator No: ON7912119
Approval Years: 2016
Status:
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description: COMPUTER, COMPUTER PERIPHERAL AND PRE-PACKAGED SOFTWARE WHOLESALER-DISTRIBUTORS
Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 417310

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	6 of 7	WSW/240.7	84.9 / 2.94	**Skyworks Solutions Inc** **100-84 Hines Road** **Kanata ON K2K 3G3**	GEN

Generator Info

Generator No: ON7912119
Approval Years: As of Dec 2018
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:
Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		212 I			
Waste Class Name:		Aliphatic solvents and residues			
14	7 of 7	WSW/240.7	84.9 / 2.94	**Skyworks Solutions Inc** **100-84 Hines Road** **Kanata ON K2K 3G3**	GEN

Generator Info

Generator No:	ON7912119	**Choice of Contact:**	
Approval Years:	As of Oct 2019	**Contaminated Fac:**	
Status:	Registered	**MHSW Facility:**	
PO Box No:		**SIC Code:**	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class:	212 I
Waste Class Name:	Aliphatic solvents and residues

2017 Generator Info

Gen No:	ON7912119	**Choice of Contact:**	CO_OFFICIAL
ID:	30916	**Phone No Official:**	613-287-4959 Ext.
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	417310	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	Skyworks Solutions Inc		
Gen Div:			
Gen Op Name:	Skyworks Solutions Inc		
Gen Op Div:			
Site Adrs1:	100-84 Hines Road		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Kanata		
Province Out:			
Site Postal Code:	K2K 3G3		
Site Country:	Canada		
Co Official:	Jean-Rene Cliche		
Co Admin:			

2017 Generator Manifest

ID:	58147	**Sum Received Qty:**	235.0
Generator No:	ON7912119	**Waste Class Name:**	ALIPHATIC SOLVENTS
Receiver Type:	040	**Count Manifests:**	2
Waste Char:	I	**District:**	805
Waste Code:	212		

2017 Generator Manifest

ID:	58146	**Sum Received Qty:**	600.0

Generator No:	ON7912119	**Waste Class Name:**	ALKALINE WASTES - OTHER METALS
Receiver Type:	040	**Count Manifests:**	2
Waste Char:	C	**District:**	805
Waste Code:	122		

2018 Generator Info

Gen No:	ON7912119	**Choice of Contact:**	CO_OFFICIAL
ID:	31499	**Phone No Official:**	613-287-4959 Ext.
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	417310	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	Skyworks Solutions Inc		
Gen Div:			
Gen Op Name:	Skyworks Solutions Inc		
Gen Op Div:			
Site Adrs1:	100-84 Hines Road		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Kanata		
Province Out:			
Site Postal Code:	K2K 3G3		
Site Country:	Canada		
Co Official:	Jean-Rene Cliche		
Co Admin:			

2018 Generator Manifest

ID:	58289	**Sum Received Qty:**	80.0
Generator No:	ON7912119	**Waste Class Name:**	ALIPHATIC SOLVENTS
Receiver Type:	040	**Count Manifests:**	1
Waste Char:	I	**District:**	805
Waste Code:	212		

2018 Generator Manifest

ID:	58288	**Sum Received Qty:**	205.0
Generator No:	ON7912119	**Waste Class Name:**	ALKALINE WASTES - OTHER METALS
Receiver Type:	040	**Count Manifests:**	1
Waste Char:	C	**District:**	805
Waste Code:	122		

2019 Generator Info

Gen No:	ON7912119	**Choice of Contact:**	CO_OFFICIAL
ID:	31860	**Phone No Official:**	613-287-4959 Ext.
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	417310	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	Skyworks Solutions Inc		
Gen Div:			
Gen Op Name:	Skyworks Solutions Inc		
Gen Op Div:			
Site Adrs1:	100-84 Hines Road		
Site Bldg:			
Site Pobox:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Province In:		ONTARIO			
Site Adrs2:					
Site City:		Kanata			
Province Out:					
Site Postal Code:		K2K 3G3			
Site Country:		Canada			
Co Official:		Jean-Rene Cliche			
Co Admin:					

15	1 of 16	WSW/242.0	85.6 / 3.70	**WILLIAM S. BURNSIDE (CANADA) LIMITED** **88 HINES ROAD (SWM)** **KANATA ON K2K 2T8**	CA

Certificate #:	3-0347-98-
Application Year:	98
Issue Date:	6/12/1998
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

15	2 of 16	WSW/242.0	85.6 / 3.70	**Flexus Electronics Inc.** **88 Hines Rd Bay 5-6** **Kanata ON K2K 2T8**	SCT

Established:	01-AUG-91
Plant Size (ft²):	7000
Employment:	

--Details--

Description:	Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code:	334410
Description:	Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code:	334410

15	3 of 16	WSW/242.0	85.6 / 3.70	**Flexus Inc.** **88 Hines Rd Bay 5-6** **Kanata ON K2K 2T8**	SCT

Established:	9/1/1991
Plant Size (ft²):	7000
Employment:	

--Details--

Description:	Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code:	334410
Description:	Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code:	334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	4 of 16	WSW/242.0	85.6 / 3.70	Telemus Inc. 88 Hines Road Ottawa ON K2K 2T8	GEN

Generator Info

Generator No:	ON7263654	***Choice of Contact:***	
Approval Years:	04,05,06	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	335990
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	All Other Electrical Equipment and Component Manufacturing		

Waste Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	5 of 16	WSW/242.0	85.6 / 3.70	Telemus Inc. 88 Hines Rd Kanata ON K2K 2T8	SCT

Established: 1994
Plant Size (ft²):
Employment:

--Details--
Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Engineering Services
SIC/NAICS Code: 541330

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15 | **6 of 16** | **WSW/242.0** | **85.6 / 3.70** | **954050 ONTARIO INC.**
88 HINES RD
KANATA ON | **GEN**

Generator Info

Generator No: ON5315252
Approval Years: 2013
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 335990

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

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

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15 | **7 of 16** | **WSW/242.0** | **85.6 / 3.70** | **Ultra Electronics**
88 Hines Rd | **SCT**

Kanata ON K2K 2T8

Established: 01-AUG-94
Plant Size (ft²):
Employment:

--Details--
Description: Engineering Services
SIC/NAICS Code: 541330

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Construction Machinery Manufacturing
SIC/NAICS Code: 333120

15	8 of 16	WSW/242.0	85.6 / 3.70	954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2T8	GEN

Generator Info

Generator No: ON5315252
Approval Years: 07,08
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: All Other Electrical Equipment and Component Manufacturing

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 335990

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

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

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15 | **9 of 16** | **WSW/242.0** | **85.6 / 3.70** | **954050 ONTARIO INC.**
88 HINES RD
KANATA ON K2K 2T8 | **GEN**

Generator Info

Generator No: ON5315252
Approval Years: 2009
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: All Other Electrical Equipment and Component Manufacturing
Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 335990

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 252

Waste Class Name: WASTE OILS & LUBRICANTS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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15 | **10 of 16** | **WSW/242.0** | **85.6 / 3.70** | **Ultra Electronics Canada Defence Inc.**
88 Hines Road
Ottawa ON | **GEN**

Generator Info

Generator No: ON7263654
Approval Years: 2009
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: All Other Electrical Equipment and Component Manufacturing

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 335990

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	11 of 16	WSW/242.0	85.6 / 3.70	Ultra Electronics TCS Inc. 88 Hines Road Ottawa ON	GEN

Generator Info

Generator No:	ON7263654	***Choice of Contact:***	
Approval Years:	2010	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	335990
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	All Other Electrical Equipment and Component Manufacturing		

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	12 of 16	WSW/242.0	85.6 / 3.70	954050 ONTARIO INC. 88 HINES RD KANATA ON K2K 2T8	GEN

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

Generator Info

Generator No:	ON5315252	***Choice of Contact:***	
Approval Years:	2010	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	335990
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	All Other Electrical Equipment and Component Manufacturing		

Waste Detail(s)

Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

Waste Detail(s)

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

Waste Detail(s)

Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class:	232
Waste Class Name:	POLYMERIC RESINS

15	***13 of 16***	***WSW/242.0***	***85.6 / 3.70***	***Ultra Electronics TCS Inc.*** ***88 Hines Road*** ***Ottawa ON***	***GEN***

Generator Info

Generator No:	ON7263654	***Choice of Contact:***	
Approval Years:	2011	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	335990
Country:			

Co Admin:
Phone No Admin:
SIC Description: All Other Electrical Equipment and Component Manufacturing

Waste Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

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15 ***14 of 16*** ***WSW/242.0*** ***85.6 / 3.70*** ***ULTRA ELECTRONICS***
88 HINES RD
OTTAWA ON K2K2T8 ***GEN***

Generator Info

Generator No:	ON4360723	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2015	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	334410
Country:	Canada		

Co Admin:
Phone No Admin:
SIC Description: SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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15 | **15 of 16** | **WSW/242.0** | **85.6 / 3.70** | **954050 ONTARIO INC.**
88 HINES RD
KANATA ON K2K 2B8 | **GEN**

Generator Info

Generator No:	ON5315252	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2014	**Contaminated Fac:**	No
Status:		**MHSW Facility:**	No
PO Box No:		**SIC Code:**	335990
Country:	Canada		

Co Admin: Nguyen Tieu
Phone No Admin: 613-591-0768 Ext.
SIC Description: ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 232

Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

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15 | **16 of 16** | **WSW/242.0** | **85.6 / 3.70** | **Carrier Commercial Services**
88 Hines Road
Kanata ON | **GEN**

Generator Info as of Dec 2024

Generator No: ON001061009
Generator Company Name: Carrier Commercial Services
Street: 88 Hines Road
City: Kanata
Province State: Ontario
Country: Canada
Postal Code: K2K 2T8
Waste Class: 331 I

Waste Class Decoded:

331 - WASTE COMPRESSED GASES

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16 | **1 of 1** | **W/243.5** | **84.9 / 2.94** | **lot 9 con 3**
ON | **WWIS**

Well ID: 1503344
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 07/06/1964
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1503
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 009
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503344.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/28/1964
Year Completed: 1964
Depth (m): 17.0688
Latitude: 45.3466282973595
Longitude: -75.923100538294
X: -75.92310037689158

Y: 45.346628290556055
Path: 150\1503344.pdf

Bore Hole Information

Bore Hole ID:	10025387	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427685.60
Code OB Desc:		***North83:***	5021872.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	05/28/1964	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 930996629
Layer: 2
Color:
General Color:
Material 1: 21
Material 1 Desc: GRANITE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 56.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930996628
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961503344
Method Construction Code: 1
Method Construction: Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 10573957
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930043526
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043527
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 56.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 991503344
Pump Set At:
Static Level: 11.0
Final Level After Pumping: 12.0
Recommended Pump Depth: 40.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933456238
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 55.0
Water Found Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	1 of 20	NW/245.0	81.4 / -0.51	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2E6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 3000

--Details--
Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	2 of 20	NW/245.0	81.4 / -0.51	NEWBRIDGE NETWORK CORPORATION 600 MARCH RD KANATA ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 1800

--Details--
Description: ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3679

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	3 of 20	NW/245.0	81.4 / -0.51	Alcatel Canada Inc. 600 March Rd Kanata ON K2K 2T6	SCT

Established: 1986
Plant Size (ft²): 95000
Employment: 000

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	4 of 20	NW/245.0	81.4 / -0.51	ALCATEL CANADA INC. 600 MARCH ROAD KANATA ON K2K 2E6	GEN

Generator Info

Generator No: ON0044812 **Choice of Contact:**

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

Approval Years: 00,01,02,03,04,05,06,07,08
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: TELECOMMUNICATIONS
Contaminated Fac:
MHSW Facility:
SIC Code: 3351

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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17 | ***5 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***Alcatel-Lucent Canada Inc.***
600 March Rd
Kanata ON K2K 2T6 | ***SCT***

Established: 01-JUN-86
Plant Size (ft²): 95000
Employment:

--Details--
Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

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17 | ***6 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2T6 | ***GEN***

Generator Info

Generator No: ON0044812
Approval Years: 2009
Status:
PO Box No:
Country:
Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 513390

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

Co Admin:
Phone No Admin:
SIC Description:

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

17	7 of 20	NW/245.0	81.4 / -0.51	***ALCATEL CANADA INC.*** ***600 March Road*** ***Kanata ON K2K 2T6***	GEN

Generator Info

Generator No: ON0044812
Approval Years: 2010
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 513390

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

17	8 of 20	NW/245.0	81.4 / -0.51	***ALCATEL CANADA INC.*** ***600 March Road*** ***Kanata ON K2K 2T6***	GEN

Generator Info

Generator No: ON0044812
Approval Years: 2011
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 513390

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

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17 | ***9 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2T6 | ***GEN***

Generator Info

Generator No: ON0044812
Approval Years: 2012
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 513390

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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17 | ***10 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON | ***GEN***

Generator Info

Generator No:	ON0044812	***Choice of Contact:***	
Approval Years:	2013	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	513390
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	OTHER TELECOMMUNICATIONS		

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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17 | ***11 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***NOKIA CANADA***
600 March Road
Kanata ON K2K 2E6 | ***GEN***

Generator Info

Generator No: ON0044812
Approval Years: 2016
Status:
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description: OTHER TELECOMMUNICATIONS

Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 513390

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

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

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

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17 | ***12 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***ALCATEL CANADA INC.***
600 March Road
Kanata ON K2K 2E6 | ***GEN***

Generator Info

Generator No:	ON0044812	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2015	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	513390
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:	OTHER TELECOMMUNICATIONS		

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	13 of 20	NW/245.0	81.4 / -0.51	ALCATEL CANADA INC. 600 March Road Kanata ON K2K 2E6	GEN

Generator Info

Generator No: ON0044812
Approval Years: 2014
Status:
PO Box No:
Country: Canada
Co Admin:

Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 513390

Phone No Admin:
SIC Description: OTHER TELECOMMUNICATIONS

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

17	***14 of 20***	***NW/245.0***	***81.4 / -0.51***	***NOKIA CANADA*** ***600 March Road*** ***Kanata ON K2K 2E6***	***GEN***

Generator Info

Generator No:	ON0044812	***Choice of Contact:***	
Approval Years:	As of Dec 2018	***Contaminated Fac:***	
Status:	Registered	***MHSW Facility:***	
PO Box No:		***SIC Code:***	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class:	122 C
Waste Class Name:	Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class:	112 C
Waste Class Name:	Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class:	263 I
Waste Class Name:	Misc. waste organic chemicals

Waste Detail(s)

Waste Class:	148 B
Waste Class Name:	Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders

Waste Detail(s)

Waste Class:	121 C
Waste Class Name:	Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class:	146 R
Waste Class Name:	Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

17	*15 of 20*	*NW/245.0*	*81.4 / -0.51*	***NOKIA CANADA*** ***600 March Road*** ***Kanata ON K2K 2E6***	***GEN***

Generator Info

Generator No: ON0044812
Approval Years: As of Jul 2020
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

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17 | **16 of 20** | **NW/245.0** | **81.4 / -0.51** | **NOKIA CANADA**
600 March Road
Kanata ON K2K 2E6 | **GEN**

Generator Info

Generator No: ON0044812
Approval Years: As of Jan 2021
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 263 I

Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

17	17 of 20	NW/245.0	81.4 / -0.51	**NOKIA CANADA** **600 March Road** **Kanata ON K2K 2E6**	GEN

Generator Info

Generator No: ON0044812
Approval Years: As of Oct 2022
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

2017 Generator Info

Gen No: ON0044812
ID: 972
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 513390
NAICS Code2:
NAICS Code3:
Gen Name: NOKIA CANADA
Gen Div:
Gen Op Name: NOKIA CANADA
Gen Op Div:
Site Adrs1: 600 March Road
Site Bldg: Corporate
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Kanata
Province Out:
Site Postal Code: K2K 2E6
Site Country: Canada
Co Official: Denis Renaud
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Official: 613-784-4843 Ext.
Phone No Admin:
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402

2017 Generator Manifest

ID: 4474
Generator No: ON0044812
Receiver Type: 035
Waste Char: L
Waste Code: 252
Sum Received Qty: 40.0
Waste Class Name: WASTE OILS & LUBRICANTS
Count Manifests: 1
District: 402

2017 Generator Manifest

ID: 4476
Generator No: ON0044812
Receiver Type: 035
Waste Char: I
Waste Code: 331
Sum Received Qty: 20.0
Waste Class Name: WASTE COMPRESSED GASES
Count Manifests: 1
District: 402

2017 Generator Manifest

ID:	4472	***Sum Received Qty:***	20.0
Generator No:	ON0044812	***Waste Class Name:***	ALKALINE WASTES - OTHER METALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	C	***District:***	402
Waste Code:	122		

2017 Generator Manifest

ID:	4473	***Sum Received Qty:***	21.0
Generator No:	ON0044812	***Waste Class Name:***	INORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	B	***District:***	402
Waste Code:	148		

2017 Generator Manifest

ID:	4475	***Sum Received Qty:***	40.0
Generator No:	ON0044812	***Waste Class Name:***	ORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	263		

2018 Generator Info

Gen No:	ON0044812	***Choice of Contact:***	CO_OFFICIAL
ID:	949	***Phone No Official:***	613-784-4843 Ext.
Contaminated Fac:	N	***Phone No Admin:***	
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	513390	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	NOKIA CANADA		
Gen Div:			
Gen Op Name:	NOKIA CANADA		
Gen Op Div:			
Site Adrs1:	600 March Road		
Site Bldg:	Corporate		
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Kanata		
Province Out:			
Site Postal Code:	K2K 2E6		
Site Country:	Canada		
Co Official:	Denis Renaud		
Co Admin:			

2019 Generator Info

Gen No:	ON0044812	***Choice of Contact:***	CO_OFFICIAL
ID:	925	***Phone No Official:***	613-784-4843 Ext.
Contaminated Fac:	N	***Phone No Admin:***	
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	513390	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	NOKIA CANADA		
Gen Div:			
Gen Op Name:	NOKIA CANADA		
Gen Op Div:			

Site Adrs1:	600 March Road
Site Bldg:	Corporate
Site Pobox:	
Province In:	ONTARIO
Site Adrs2:	
Site City:	Kanata
Province Out:	
Site Postal Code:	K2K 2E6
Site Country:	Canada
Co Official:	Denis Renaud
Co Admin:	

2019 Generator Manifest

ID:	4208	**Sum Received Qty:**	34.0
Generator No:	ON0044812	**Waste Class Name:**	OTHER SPECIFIED INORGANICS
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	T	**District:**	402
Waste Code:	146		

2020 Generator Info

Gen No:	ON0044812	**Choice of Contact:**	CO_OFFICIAL
ID:	875	**Phone No Official:**	613-784-4843 Ext.
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	513390	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	NOKIA CANADA		
Gen Div:			
Gen Op Name:	NOKIA CANADA		
Gen Op Div:			
Site Adrs1:	600 March Road		
Site Bldg:	Corporate		
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Kanata		
Province Out:			
Site Postal Code:	K2K 2E6		
Site Country:	Canada		
Co Official:	Denis Renaud		
Co Admin:			

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17 | ***18 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***600 March Road lot 8 con 4 Kanata ON*** | ***WWIS***

Well ID:	7444461	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Test Hole	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Test Hole	**Date Received:**	05/03/2023
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	B7I3BZG8	**Contractor:**	7675
Tag:	A311062	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	OTTAWA-CARLETON
Elevatn Reliabilty:		**Lot:**	008
Depth to Bedrock:		**Concession:**	04
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	

Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MARCH TOWNSHIP		
Site Info:	BH3-23		

Bore Hole Information

Bore Hole ID:	1009390051	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427934.00
Code OB Desc:		***North83:***	5021836.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/17/2023	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009390262
Layer:	1
Color:	2
General Color:	GREY
Material 1:	11
Material 1 Desc:	GRAVEL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1009390263
Layer:	2
Color:	2
General Color:	GREY
Material 1:	18
Material 1 Desc:	SANDSTONE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.5
Formation End Depth:	19.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390468
Layer: 2
Plug From: 9.0
Plug To: 19.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390467
Layer: 1
Plug From: 0.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390416
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009390164
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 1009390122
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009390313
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 9.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009390346
Layer: 1
Slot: 10
Screen Top Depth: 9.0
Screen End Depth: 19.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch

Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009390123
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009390384
Diameter: 8.0
Depth From: 0.0
Depth To: 2.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1009390385
Diameter: 4.0
Depth From: 2.5
Depth To: 19.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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17 | **19 of 20** | **NW/245.0** | **81.4 / -0.51** | **600 March Road lot 8 con 4 Kanata ON** | **WWIS**

Well ID: 7444459
Construction Date:
Use 1st: Test Hole
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: 4K543GI6
Tag: A125988
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/03/2023
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Site Info: BH6-23

Bore Hole Information

Bore Hole ID:	1009390045	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	427856.00
Code OB Desc:		***North83:***	5021913.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/19/2023	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1009390258
Layer: 1
Color: 2
General Color: GREY
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1009390259
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390464
Layer: 2
Plug From: 5.0
Plug To: 15.0

Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390463
Layer: 1
Plug From: 0.0
Plug To: 5.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390414
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009390162
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 1009390118
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009390311
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009390344
Layer: 1
Slot: 10
Screen Top Depth: 5.0
Screen End Depth: 15.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009390119
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009390380
Diameter: 8.0
Depth From: 0.0
Depth To: 2.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1009390381
Diameter: 4.0
Depth From: 2.0
Depth To: 15.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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17 | ***20 of 20*** | ***NW/245.0*** | ***81.4 / -0.51*** | ***600 March Road lot 8 con 4 Kanata ON*** | ***WWIS***

Well ID: 7444460
Construction Date:
Use 1st: Test Hole
Use 2nd:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: YWVVUZ5R
Tag: A311059
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MARCH TOWNSHIP
Site Info: BH4-23

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/03/2023
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7675
Form Version: 9
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009390048
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/19/2023
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 427943.00
North83: 5021902.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1009390260
Layer: 1
Color: 2
General Color: GREY
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1009390261
Layer: 2
Color: 2
General Color: GREY
Material 1: 18
Material 1 Desc: SANDSTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390465
Layer: 1
Plug From: 0.0
Plug To: 10.0
Plug Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 1009390415
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009390466
Layer: 2
Plug From: 10.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009390163
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 1009390120
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009390312
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 10.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009390345
Layer: 1
Slot: 10
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009390121
Pump Set At:

Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009390382
Diameter: 8.0
Depth From: 0.0
Depth To: 2.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1009390383
Diameter: 4.0
Depth From: 2.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

18	*1 of 11*	*E/245.1*	*78.7 / -3.20*	***Open Text Corporation*** ***515 Legget Dr Suite 300*** ***Kanata ON K2K 3G4***	***SCT***

Established: 1983
Plant Size (ft²): 19000
Employment: 55

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

18	*2 of 11*	*E/245.1*	*78.7 / -3.20*	***Ubiquity Software Corp.*** ***515 Legget Dr Suite 400*** ***Ottawa ON K2K 3G4***	***SCT***

Established: 1993
Plant Size (ft²):
Employment: 90

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	3 of 11	E/245.1	78.7 / -3.20	Kanata Research Park Corporation 515 Legget drive Ottawa ON	SPL

Ref No:	8118-7LCLK2	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:		**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	11/13/2008	**Impact to Health:**	
Dt Document Closed:	11/26/2008	**Agency Involved:**	

Site No:
MOE Response: Referral to others
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa
Nearest Watercourse:
Site Name: Kanata Research Park Corp<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name: Kanata Research Park Corporation
Client Type:
Source Type:
Incident Cause: Unknown
Incident Preceding Spill:
Incident Reason: Unknown - Reason not determined
Incident Summary: Kanata Research Park, Diesel to Grnd cln
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact:
Contaminant Qty: other - see incident description
Contaminant Qty 1:
Contaminant Unit: other - see incident description
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	4 of 11	E/245.1	78.7 / -3.20	Kanata Research Park Corporation 515 Legget Drive Ottawa ON	CA

Certificate #: 2275-5HUW47
Application Year: 2003
Issue Date: 1/18/2003

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

Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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18 | **5 of 11** | **E/245.1** | **78.7 / -3.20** | **Quest Software Canada Inc.**
515 Legget Dr Suite 1001
Kanata ON K2K 3G4 | **SCT**

Established: 01-APR-87
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Software Publishers
SIC/NAICS Code: 511210

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18 | **6 of 11** | **E/245.1** | **78.7 / -3.20** | **515 LEGGET DRIVE**
KANATA ON | **HINC**

External File Num: FS INC 0811-07034
Fuel Occurrence Type: Leak
Date of Occurrence: 11/13/2008
Fuel Type Involved: Fuel Oil
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Commercial (e.g. restaurant, business unit, etc)
Service Interruptions: No
Property Damage: No
Fuel Life Cycle Stage: Utilization
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:Yes Training: Yes Management:No Human Factors:Yes
Reported Details:
Fuel Category: Liquid Fuel
Occurrence Type: Incident
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Ottawa
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

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18 | **7 of 11** | **E/245.1** | **78.7 / -3.20** | **515 Legget Drive**
Ottawa ON | **EHS**

Order No: 20120116006
Status: C
Report Type: Custom Report
Report Date: 1/20/2012
Date Received: 1/16/2012 11:23:28 AM
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.91645

Previous Site Name: ***Y:*** 45.346799
Lot/Building Size:
Additional Info Ordered:

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18 | ***8 of 11*** | ***E/245.1*** | ***78.7 / -3.20*** | ***KANATA RESEARCH PARK***
515 LEGGET Drive
KANATA ON K2K3G4 | ***NPRI***

NPRI ID:	8800000228	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWER D	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	294	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	10024-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrous oxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	124-38-9
Report ID:	
Rpt Period:	2004
Subst Released:	Carbon dioxide

Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No:	811-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	HFC-134a Hydrofluorocarbon
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M08
Report ID:	
Rpt Period:	2004
Subst Released:	PM - Total Particulate Matter
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M10
Report ID:	
Rpt Period:	2004
Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

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18 | ***9 of 11*** | ***E/245.1*** | ***78.7 / -3.20*** | ***515 Legget Dr***
Ottawa ON K2K3G4 | ***EHS***

Order No:	20160614073	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	20-JUN-16	**Search Radius (km):**	.25
Date Received:	14-JUN-16	**X:**	-75.917214
Previous Site Name:		**Y:**	45.347623
Lot/Building Size:			
Additional Info Ordered:			

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18 | ***10 of 11*** | ***E/245.1*** | ***78.7 / -3.20*** | ***Kanata Research Park Corporation***
515 Legget Drive
Ottawa ON K2K 2X3 | ***ECA***

Approval No:	2275-5HUW47	**MOE District:**	Ottawa
Approval Date:	2003-01-18	**City:**	
Status:	Approved	**Longitude:**	-75.91614
Record Type:	ECA	**Latitude:**	45.346527
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Mississippi Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Kanata Research Park Corporation		
Address:	515 Legget Drive		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4311-5DXQ9R-14.pdf		
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	11 of 11	E/245.1	78.7 / -3.20	Broccolini Construction Ottawa Inc. 515 Legget Drive Ottawa ON K2K 3G4	GEN

Generator Info

Generator No:	ON3449897	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2015	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	236210, 235220
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:	INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION, 235220		

Waste Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 16	SW/245.4	83.0 / 1.08	EXCALIBUR SYSTEMS LTD. 50 Hines Rd Kanata ON K2K 2M5	SCT

Established:	1988
Plant Size (ft²):	10000
Employment:	21

--Details--

Description:	All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code:	333990
Description:	Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code:	334410
Description:	Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code:	334511
Description:	Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code:	334610

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	2 of 16	SW/245.4	83.0 / 1.08	HUBER & SUHNER CANADA 50 HINES ROAD KANATA ON K2K 2M5	GEN

Generator Info

Generator No:	ON2494100	***Choice of Contact:***	
Approval Years:	99,00,01,03	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	4821
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	TELECOMMUN. CARRRIERS		

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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19 | ***3 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***HUBER & SUHNER CANADA***
50 HINES ROAD
KANATA ON K2K 2M5 | ***GEN***

Generator Info

Generator No: ON2494100
Approval Years: 02
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

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19 | ***4 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***HUBER & SUHNER CANADA***
50 HINES ROAD
KANATA ON K2K 2M5 | ***GEN***

Generator Info

Generator No: ON2494100
Approval Years: 04
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

---

19 | ***5 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***DRS EW & Network Systems***
50 Hines Rd | ***SCT***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Kanata ON K2K 2M5	

Established: 1988
Plant Size (ft²): 10000
Employment: 25

--Details--
Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Navigational and Guidance Instruments Manufacturing
SIC/NAICS Code: 334511

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

19	***6 of 16***	***SW/245.4***	***83.0 / 1.08***	***WorkDynamics Technologies 50 Hines Rd Suite 220 Kanata ON K2K 2M5***	***SCT***

Established: 01-OCT-98
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

19	***7 of 16***	***SW/245.4***	***83.0 / 1.08***	***DRS EW & Network Systems (Canada) Ltd. 50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa ON***	***EBR***

EBR Registry No: IA04E1366
Ministry Ref No: 5540-654NXU
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 22, 2005
Proposal Date: September 24, 2004
Year: 2004
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: DRS EW & Network Systems (Canada) Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road, Suite 200, Ottawa Ontario, K2K 2M5
Comment Period:
URL:
Summary:

Site Location Details:

50 Hines Road, Suite 200 Ottawa Ontario K2K 2M5 Ottawa

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19 | ***8 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***Power Integrations Canada Inc.***
50 Hines Rd Suite 240
Kanata ON K2K 2M5 | ***SCT***

Established: 01-AUG-00
Plant Size (ft²):
Employment:

--Details--
Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

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19 | ***9 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***OneChip Photonics Inc.***
50 Hines Rd Suite 200
Kanata ON K2K 2M5 | ***SCT***

Established: 8/1/2005
Plant Size (ft²): 17000
Employment:

--Details--
Description: Commercial and Service Industry Machinery Manufacturing
SIC/NAICS Code: 333310

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19 | ***10 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***Cyrium Technologies Incorporated***
50 Hines Road Unit Suite 200 Ottawa K2K 2M5
CITY OF OTTAWA
ON | ***EBR***

EBR Registry No: 010-9829
Ministry Ref No: 5633-84JKT3
Notice Type: Instrument Decision
Notice Stage:
Notice Date: January 07, 2011
Proposal Date: April 27, 2010
Year: 2010
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Cyrium Technologies Incorporated
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road , Suite 200, Kanata Ontario, Canada K2K 2M5
Comment Period:
URL:
Summary:

Site Location Details:

50 Hines Road Unit Suite 200 Ottawa K2K 2M5 CITY OF OTTAWA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	11 of 16	SW/245.4	83.0 / 1.08	Cyrium Technologies Incorporated 50 Hines Rd Kanata Ottawa ON	CA

Certificate #: 0093-89LSKT
Application Year: 2010
Issue Date: 12/15/2010
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	12 of 16	SW/245.4	83.0 / 1.08	DRS EW & Network Systems (Canada) Ltd. 50 Hines Road, Suite 200 Ottawa ON	CA

Certificate #: 0429-69NPJ2
Application Year: 2005
Issue Date: 2/16/2005
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	13 of 16	SW/245.4	83.0 / 1.08	Merge Healthcare Incorporated 50 Hines Rd Suite 120 Kanata ON K2K 2M5	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	14 of 16	SW/245.4	83.0 / 1.08	GaN Systems Inc. 50 Hines road, suite 204 Ottawa ON	GEN

Generator Info

Generator No: ON8149211 **Choice of Contact:**

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

Approval Years: 2013
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING
Contaminated Fac:
MHSW Facility:
SIC Code: 334290

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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19 | ***15 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***Cyrium Technologies Incorporated***
50 Hines Rd Kanata
Ottawa ON | ***ECA***

Approval No: 0093-89LSKT
Approval Date: 2010-12-15
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Cyrium Technologies Incorporated
Address: 50 Hines Rd Kanata
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5633-84JKT3-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

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19 | ***16 of 16*** | ***SW/245.4*** | ***83.0 / 1.08*** | ***DRS EW & Network Systems (Canada) Ltd.***
50 Hines Road, Suite 200
Ottawa ON K2K 2M5 | ***ECA***

Approval No: 0429-69NPJ2
Approval Date: 2005-02-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: DRS EW & Network Systems (Canada) Ltd.
Address: 50 Hines Road, Suite 200
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5540-654NXU-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.921005
Latitude: 45.344448
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	1 of 4	SW/246.0	83.9 / 1.92	70 Hines Rd. Kanata ON K2K 2M5	EHS

Order No: 20030506003
Status: C
Report Type: Complete Report
Report Date: 5/14/03
Date Received: 5/6/03
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.35
X: -75.922054
Y: 45.345364

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	2 of 4	SW/246.0	83.9 / 1.92	2117547 Ontario Inc. 70 Hines Rd Ottawa ON	CA

Certificate #: 1183-8GPFW8
Application Year: 2011
Issue Date: 5/20/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	3 of 4	SW/246.0	83.9 / 1.92	2117547 Ontario Inc. 70 Hines Rd Ottawa ON K2V 1B8	ECA

Approval No: 1183-8GPFW8
Approval Date: 2011-05-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Mississippi Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: 2117547 Ontario Inc.
Address: 70 Hines Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4593-89YRCE-14.pdf
PDF Site Location:
MOE District: Ottawa
City:
Longitude: -75.92153
Latitude: 45.34491
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	4 of 4	SW/246.0	83.9 / 1.92	Rogers Communications Inc. 70 Hines Rd.; 70 Hines Rd Ottawa; Ottawa ON K2K 2M5	SPL

Ref No: 4845-BF9RH6
Year:
Incident Dt: 8/20/2019
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/21/2019
Dt Document Closed:
Site No: NA; 3801-89YRCZ
MOE Response: No
Site County/District: NA
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Site Geo Ref Meth:	NA
Site District Office:	Ottawa; Ottawa
Nearest Watercourse:	
Site Name:	Legion Branch 638<UNOFFICIAL>; 70 Hines Road
Site Address:	70 Hines Rd.; 70 Hines Rd
Site Region:	Eastern
Site Municipality:	Ottawa; Ottawa
Site Lot:	
Site Conc:	NA
Site Geo Ref Accu:	NA
Site Map Datum:	NA
Northing:	NA
Easting:	NA
Entity Operating Name:	
Client Name:	Rogers Communications Inc.
Client Type:	Corporation
Source Type:	Valve/Fitting/Piping
Incident Cause:	
Incident Preceding Spill:	Leak/Break
Incident Reason:	Material Failure - Poor Design/Substandard Material
Incident Summary:	Rogers: ~150-250L diesel to ground/cracked line
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	250 L
Contaminant Qty 1:	250
Contaminant Unit:	L
Contaminant Code:	13
Contaminant Name:	DIESEL FUEL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	1202
Receiving Medium:	Land; Source Water Zone
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Unknown / N/A
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	

21	***1 of 34***	***NE/246.0***	***76.8 / -5.09***	***525 Legget Drive Ottawa (Formerly Kanata) ON K2K 2W2***	***EHS***

Order No:	20070627004	***Nearest Intersection:***	Terry Fox Drive and Legget Drive
Status:	C	***Municipality:***	Ottawa
Report Type:	CAN - Complete Report	***Client Prov/State:***	
Report Date:	7/6/2007	***Search Radius (km):***	0.25
Date Received:	6/27/2007	***X:***	-75.918152
Previous Site Name:		***Y:***	45.348691
Lot/Building Size:	4.55 Acre		
Additional Info Ordered:	City Directory		

21	***2 of 34***	***NE/246.0***	***76.8 / -5.09***	***BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2***	***GEN***

Generator Info

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

Generator No: ON7945197
Approval Years: 2009
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: Hotels

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 721111

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	3 of 34	NE/246.0	76.8 / -5.09	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator Info

Generator No: ON7945197
Choice of Contact:

Approval Years:	2010	**Contaminated Fac:**	
Status:		**MHSW Facility:**	
PO Box No:		**SIC Code:**	721111
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	Hotels		

Waste Detail(s)

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class:	113
Waste Class Name:	ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS

21	***4 of 34***	***NE/246.0***	***76.8 / -5.09***	***BROOKSTREET*** ***525 LEGGET DRIVE*** ***KANATA ON K2K 2W2***	***GEN***

Generator Info

Generator No:	ON7945197	**Choice of Contact:**	
Approval Years:	2011	**Contaminated Fac:**	

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

Status: ***MHSW Facility:***
PO Box No: ***SIC Code:*** 721111
Country:
Co Admin:
Phone No Admin:
SIC Description: Hotels

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

21	*5 of 34*	*NE/246.0*	*76.8 / -5.09*	***Sannoufi Medicine Professional Corporation*** ***525 Legget Dr. Suite 150*** ***Kanata ON K2K 2W2***	*GEN*

Generator Info

Generator No: ON8874529
Approval Years: 2011
Status:

Choice of Contact:
Contaminated Fac:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
PO Box No:				**SIC Code:** 621110	
Country:					
Co Admin:					
Phone No Admin:					
SIC Description:					

21	6 of 34	NE/246.0	76.8 / -5.09	**Sannoufi Medicine Professional Corporation** **525 Legget Dr. Suite 150** **Kanata ON K2K 2W2**	GEN

Generator Info

Generator No:	ON8874529	**Choice of Contact:**	
Approval Years:	2012	**Contaminated Fac:**	
Status:		**MHSW Facility:**	
PO Box No:		**SIC Code:**	621110
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	Offices of Physicians		

21	7 of 34	NE/246.0	76.8 / -5.09	**BROOKSTREET** **525 LEGGET DRIVE** **KANATA ON K2K 2W2**	GEN

Generator Info

Generator No:	ON7945197	**Choice of Contact:**	
Approval Years:	2012	**Contaminated Fac:**	
Status:		**MHSW Facility:**	
PO Box No:		**SIC Code:**	721111
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	Hotels		

Waste Detail(s)

Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

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

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

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21 | ***8 of 34*** | ***NE/246.0*** | ***76.8 / -5.09*** | ***Sannoufi Medicine Professional Corporation***
525 Legget Dr. Suite 150
Kanata ON | ***GEN***

Generator Info

Generator No: ON8874529
Approval Years: 2013
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: OFFICES OF PHYSICIANS

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 621110

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

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21 | ***9 of 34*** | ***NE/246.0*** | ***76.8 / -5.09*** | ***BROOKSTREET***
525 LEGGET DRIVE
KANATA ON | ***GEN***

Generator Info

Generator No: ON7945197
Approval Years: 2013
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: HOTELS

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 721111

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

21	10 of 34	NE/246.0	76.8 / -5.09	Legget Drive Development Inc. 515 and 525 Legget Dr	ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Ottawa ON K1P 6E2	

Approval No: 3598-9STV8V
Approval Date: 2015-01-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Legget Drive Development Inc.
Address: 515 and 525 Legget Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7005-9RARBH-14.pdf
PDF Site Location:

21	11 of 34	NE/246.0	76.8 / -5.09	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN

Generator Info

Generator No: ON6156175
Approval Years: 2016
Status:
PO Box No:
Country: Canada
Co Admin: Janice Ho
Phone No Admin: 613.599.2222 Ext.
SIC Description: OFFICES OF ALL OTHER HEALTH PRACTITIONERS
Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 621390

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

21	12 of 34	NE/246.0	76.8 / -5.09	Sannoufi Medicine Professional Corporation 525 Legget Dr. Suite 150 Kanata ON K2K2W2	GEN

Generator Info

Generator No: ON8874529
Approval Years: 2016
Status:
PO Box No:
Country: Canada
Co Admin: Reham Sannoufi
Phone No Admin: 6135920862 Ext.
SIC Description: OFFICES OF PHYSICIANS
Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 621110

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	13 of 34	NE/246.0	76.8 / -5.09	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator Info

Generator No:	ON7945197	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2016	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	721111
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:	HOTELS		

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

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

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

21	14 of 34	NE/246.0	76.8 / -5.09	**Sannoufi Medicine Professional Corporation** **525 Legget Dr. Suite 150** **Kanata ON K2K2W2**	GEN

Generator Info

Generator No:	ON8874529	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2015	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	621110
Country:	Canada		
Co Admin:	Reham Sannoufi		
Phone No Admin:	6135920862 Ext.		
SIC Description:	OFFICES OF PHYSICIANS		

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

21	15 of 34	NE/246.0	76.8 / -5.09	**Dr. Charles Kamel, Professional Dentistry Corporat** **120 - 525 Legget Drive** **Kanata ON K2K 2W2**	GEN

Generator Info

Generator No:	ON6156175	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2015	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	621390
Country:	Canada		
Co Admin:	Janice Ho		
Phone No Admin:	613.599.2222 Ext.		
SIC Description:	OFFICES OF ALL OTHER HEALTH PRACTITIONERS		

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	16 of 34	NE/246.0	76.8 / -5.09	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator Info

Generator No:	ON7945197	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2015	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	721111
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:	HOTELS		

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

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21 | **17 of 34** | **NE/246.0** | **76.8 / -5.09** | **Sannoufi Medicine Professional Corporation**
525 Legget Dr. Suite 150
Kanata ON K2K2W2 | **GEN**

Generator Info

Generator No: ON8874529
Approval Years: 2014
Status:
PO Box No:
Country: Canada
Co Admin: Reham Sannoufi
Phone No Admin: 6135920862 Ext.
SIC Description: OFFICES OF PHYSICIANS

Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 621110

Waste Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

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21 | **18 of 34** | **NE/246.0** | **76.8 / -5.09** | **BROOKSTREET**
525 LEGGET DRIVE
KANATA ON K2K 2W2 | **GEN**

Generator Info

Generator No: ON7945197
Approval Years: 2014
Status:
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description: HOTELS

Choice of Contact: CO_OFFICIAL
Contaminated Fac: No
MHSW Facility: No
SIC Code: 721111

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

21	***19 of 34***	***NE/246.0***	***76.8 / -5.09***	***Sannoufi Medicine Professional Corporation*** ***525 Legget Dr. Suite 150*** ***Kanata ON K2K2W2***	***GEN***

Generator Info

Generator No: ON8874529
Approval Years: As of Dec 2018
Choice of Contact:
Contaminated Fac:

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

Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	20 of 34	NE/246.0	76.8 / -5.09	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN

Generator Info

Generator No: ON6156175
Approval Years: As of Dec 2018
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:
Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	21 of 34	NE/246.0	76.8 / -5.09	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator Info

Generator No: ON7945197
Approval Years: As of Dec 2018
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:
Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 263 R
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

21	*22 of 34*	*NE/246.0*	*76.8 / -5.09*	***La Vie Medial Inc.*** ***525 Legget Dr. Suite 150*** ***Kanata ON K2K2W2***	*GEN*

Generator Info

Generator No: ON8874529
Approval Years: As of Jul 2020
Status: Registered
PO Box No:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	23 of 34	NE/246.0	76.8 / -5.09	BROOKSTREET 525 LEGGET DRIVE KANATA ON K2K 2W2	GEN

Generator Info

Generator No: ON7945197
Approval Years: As of Jul 2020
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 263 R
Waste Class Name: Misc. waste organic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	24 of 34	NE/246.0	76.8 / -5.09	**Dr. Charles Kamel, Professional Dentistry Corporat** **120 - 525 Legget Drive** **Kanata ON K2K 2W2**	GEN

Generator Info

Generator No: ON6156175
Approval Years: As of Jul 2020
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	25 of 34	NE/246.0	76.8 / -5.09	**Dr. Charles Kamel, Professional Dentistry Corporat** **120 - 525 Legget Drive** **Kanata ON K2K 2W2**	GEN

Generator Info

Generator No: ON6156175
Approval Years: As of Nov 2021
Status: Registered
PO Box No:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

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21 | ***26 of 34*** | ***NE/246.0*** | ***76.8 / -5.09*** | ***BROOKSTREET***
525 LEGGET DRIVE
KANATA ON K2K 2W2 | ***GEN***

Generator Info

Generator No: ON7945197
Approval Years: As of Nov 2021
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Detail(s)

Waste Class: 263 R
Waste Class Name: Misc. waste organic chemicals

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

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21	27 of 34	NE/246.0	76.8 / -5.09	**La Vie Medial Inc.** **525 Legget Dr. Suite 150** **Kanata ON K2K2W2**	GEN

Generator Info

Generator No: ON8874529
Approval Years: As of Jan 2021
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

21	28 of 34	NE/246.0	76.8 / -5.09	**La Vie Medial Inc.** **525 Legget Dr. Suite 150** **Kanata ON K2K2W2**	GEN

Generator Info

Generator No: ON8874529
Approval Years: As of Nov 2021
Status: Registered
PO Box No:
Country: Canada
Co Admin:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Phone No Admin:
SIC Description:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

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21 | ***29 of 34*** | ***NE/246.0*** | ***76.8 / -5.09*** | ***BROOKSTREET***
525 LEGGET DRIVE
KANATA ON | ***GEN***

Generator Info

Generator No: ON7945197
Approval Years: As of Oct 2022
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 113 C

Waste Class Name: ACID WASTE - OTHER METALS

Waste Detail(s)

Waste Class: 263 R
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Generator Info as of Dec 2024

Generator No: ON7945197
Generator Company Name: BROOKSTREET
Street: 525 LEGGET DRIVE
City: KANATA
Province State: Ontario
Country: Canada
Postal Code: K2K2W2
Waste Class: 252 L, 221 L, 122 C, 221 I, 212 L, 145 I, 121 C, 146 T, 331 I, 113 C, 213 I, 263 R, 112 C, 148 C, 148 I

Waste Class Decoded:

252 - WASTE OILS & LUBRICANTS; 221 - LIGHT FUELS; 122 - ALKALINE WASTES - OTHER METALS; 221 - LIGHT FUELS; 212 - ALIPHATIC SOLVENTS; 145 - PAINT/PIGMENT/COATING RESIDUES; 121 - ALKALINE WASTES - HEAVY METALS; 146 - OTHER SPECIFIED INORGANICS; 331 - WASTE COMPRESSED GASES; 113 - ACID WASTE - OTHER METALS; 213 - PETROLEUM DISTILLATES; 263 - ORGANIC LABORATORY CHEMICALS; 112 - ACID WASTE - HEAVY METALS; 148 - INORGANIC LABORATORY CHEMICALS; 148 - INORGANIC LABORATORY CHEMICALS

Generator Info as of Dec 2024

Generator No: ON7945197
Generator Company Name: BROOKSTREET
Street: 525 LEGGET DRIVE
City: KANATA
Province State: Ontario
Country: Canada
Postal Code: K2K2W2
Waste Class: 252 L,122 C,212 L,221 L,221 I,145 I,121 C,146 T,331 I,113 C,213 I,263 R,112 C,148 C,148 I

Waste Class Decoded:

252 - WASTE OILS & LUBRICANTS; 122 - ALKALINE WASTES - OTHER METALS; 212 - ALIPHATIC SOLVENTS; 221 - LIGHT FUELS; 221 - LIGHT FUELS; 145 - PAINT/PIGMENT/COATING RESIDUES; 121 - ALKALINE WASTES - HEAVY METALS; 146 - OTHER SPECIFIED INORGANICS; 331 - WASTE COMPRESSED GASES; 113 - ACID WASTE - OTHER METALS; 213 - PETROLEUM DISTILLATES; 263 - ORGANIC LABORATORY CHEMICALS; 112 - ACID WASTE - HEAVY METALS; 148 - INORGANIC LABORATORY CHEMICALS; 148 - INORGANIC LABORATORY CHEMICALS

2017 Generator Info

Gen No:	ON7945197	***Choice of Contact:***	CO_OFFICIAL
ID:	31039	***Phone No Official:***	613-271-3544 Ext.
Contaminated Fac:	N	***Phone No Admin:***	
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	721111	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	BROOKSTREET		
Gen Div:			
Gen Op Name:	BROOKSTREET		
Gen Op Div:			
Site Adrs1:	525 LEGGET DRIVE		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	KANATA		
Province Out:			
Site Postal Code:	K2K 2W2		
Site Country:	Canada		
Co Official:	CHUCK TOTH		
Co Admin:			

2017 Generator Manifest

ID:	58322	***Sum Received Qty:***	107.0
Generator No:	ON7945197	***Waste Class Name:***	ALKALINE WASTES - HEAVY METALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	C	***District:***	402
Waste Code:	121		

2017 Generator Manifest

ID:	58321	***Sum Received Qty:***	12.0
Generator No:	ON7945197	***Waste Class Name:***	ACID WASTE - HEAVY METALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	C	***District:***	402
Waste Code:	112		

2017 Generator Manifest

ID:	58324	***Sum Received Qty:***	81.0
Generator No:	ON7945197	***Waste Class Name:***	OTHER SPECIFIED INORGANICS
Receiver Type:	035	***Count Manifests:***	3
Waste Char:	T	***District:***	402
Waste Code:	146		

2017 Generator Manifest

ID:	58325	***Sum Received Qty:***	60.0
Generator No:	ON7945197	***Waste Class Name:***	PETROLEUM DISTILLATES
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	213		

2017 Generator Manifest

ID:	58323	***Sum Received Qty:***	100.0

Generator No:	ON7945197	**Waste Class Name:**	PAINT/PIGMENT/COATING RESIDUES
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	I	**District:**	402
Waste Code:	145		

2018 Generator Info

Gen No:	ON7945197	**Choice of Contact:**	CO_OFFICIAL
ID:	31622	**Phone No Official:**	613-271-3544 Ext.
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	721111	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	BROOKSTREET		
Gen Div:			
Gen Op Name:	BROOKSTREET		
Gen Op Div:			
Site Adrs1:	525 LEGGET DRIVE		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	KANATA		
Province Out:			
Site Postal Code:	K2K 2W2		
Site Country:	Canada		
Co Official:	CHUCK TOTH		
Co Admin:			

2018 Generator Manifest

ID:	58423	**Sum Received Qty:**	94.0
Generator No:	ON7945197	**Waste Class Name:**	ALKALINE WASTES - HEAVY METALS
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	C	**District:**	402
Waste Code:	121		

2018 Generator Manifest

ID:	58425	**Sum Received Qty:**	200.0
Generator No:	ON7945197	**Waste Class Name:**	WASTE COMPRESSED GASES
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	I	**District:**	402
Waste Code:	331		

2018 Generator Manifest

ID:	58424	**Sum Received Qty:**	32.0
Generator No:	ON7945197	**Waste Class Name:**	OTHER SPECIFIED INORGANICS
Receiver Type:	035	**Count Manifests:**	2
Waste Char:	T	**District:**	402
Waste Code:	146		

2019 Generator Info

Gen No:	ON7945197	**Choice of Contact:**	CO_OFFICIAL
ID:	31993	**Phone No Official:**	613-271-3544 Ext.
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	721111	**County Out:**	
NAICS Code2:		**District:**	402

NAICS Code3:
Gen Name: BROOKSTREET
Gen Div:
Gen Op Name: BROOKSTREET
Gen Op Div:
Site Adrs1: 525 LEGGET DRIVE
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: KANATA
Province Out:
Site Postal Code: K2K 2W2
Site Country: Canada
Co Official: CHUCK TOTH
Co Admin:

2020 Generator Info

Gen No: ON7945197
ID: 31719
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 721111
NAICS Code2:
NAICS Code3:
Choice of Contact: CO_OFFICIAL
Phone No Official: 613-271-3544 Ext.
Phone No Admin:
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402
Gen Name: BROOKSTREET
Gen Div:
Gen Op Name: BROOKSTREET
Gen Op Div:
Site Adrs1: 525 LEGGET DRIVE
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: KANATA
Province Out:
Site Postal Code: K2K 2W2
Site Country: Canada
Co Official: CHUCK TOTH
Co Admin:

2020 Generator Manifest

ID: 54757
Generator No: ON7945197
Receiver Type: 035
Waste Char: I
Waste Code: 331
Sum Received Qty: 240.0
Waste Class Name: WASTE COMPRESSED GASES
Count Manifests: 3
District: 402

2021 Generator Info

Gen No: ON7945197
ID: 32428
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 721111
NAICS Code2:
NAICS Code3:
Choice of Contact: CO_OFFICIAL
Phone No Official: 613-271-3544 Ext.
Phone No Admin:
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402
Gen Name: BROOKSTREET
Gen Div:
Gen Op Name: BROOKSTREET
Gen Op Div:

Site Adrs1:	525 LEGGET DRIVE
Site Bldg:	
Site Pobox:	
Province In:	ONTARIO
Site Adrs2:	
Site City:	KANATA
Province Out:	
Site Postal Code:	K2K 2W2
Site Country:	Canada
Co Official:	CHUCK TOTH
Co Admin:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	30 of 34	NE/246.0	76.8 / -5.09	Dr. Charles Kamel, Professional Dentistry Corporat 120 - 525 Legget Drive Kanata ON K2K 2W2	GEN

Generator Info

Generator No:	ON6156175	**Choice of Contact:**	
Approval Years:	As of Oct 2022	**Contaminated Fac:**	
Status:	Registered	**MHSW Facility:**	
PO Box No:		**SIC Code:**	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class:	312 P
Waste Class Name:	PATHOLOGICAL WASTES

2017 Generator Info

Gen No:	ON6156175	**Choice of Contact:**	CO_OFFICIAL
ID:	24266	**Phone No Official:**	613.599.2222 Ext.
Contaminated Fac:	N	**Phone No Admin:**	613.599.2222 Ext.
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	621390	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			

Gen Name:	Dr. Charles Kamel, Professional Dentistry Corporat
Gen Div:	
Gen Op Name:	Dr. Charles Kamel
Gen Op Div:	
Site Adrs1:	120 - 525 Legget Drive
Site Bldg:	
Site Pobox:	
Province In:	ONTARIO
Site Adrs2:	
Site City:	Kanata
Province Out:	
Site Postal Code:	K2K 2W2
Site Country:	Canada
Co Official:	Sandra Mulder
Co Admin:	Janice Ho

2017 Generator Manifest

ID:	49588	**Sum Received Qty:**	6.0

Generator No:	ON6156175	**Waste Class Name:**	PATHOLOGICAL WASTES
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	P	**District:**	306
Waste Code:	312		

2018 Generator Info

Gen No:	ON6156175	**Choice of Contact:**	CO_OFFICIAL
ID:	24546	**Phone No Official:**	613.599.2222 Ext.
Contaminated Fac:	N	**Phone No Admin:**	613.599.2222 Ext.
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	621390	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	Dr. Charles Kamel, Professional Dentistry Corporat		
Gen Div:			
Gen Op Name:	Dr. Charles Kamel		
Gen Op Div:			
Site Adrs1:	120 - 525 Legget Drive		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Kanata		
Province Out:			
Site Postal Code:	K2K 2W2		
Site Country:	Canada		
Co Official:	Sandra Mulder		
Co Admin:	Janice Ho		

2019 Generator Info

Gen No:	ON6156175	**Choice of Contact:**	CO_OFFICIAL
ID:	24698	**Phone No Official:**	613.599.2222 Ext.
Contaminated Fac:	N	**Phone No Admin:**	613.599.2222 Ext.
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	621390	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	Dr. Charles Kamel, Professional Dentistry Corporat		
Gen Div:			
Gen Op Name:	Dr. Charles Kamel		
Gen Op Div:			
Site Adrs1:	120 - 525 Legget Drive		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Kanata		
Province Out:			
Site Postal Code:	K2K 2W2		
Site Country:	Canada		
Co Official:	Sandra Mulder		
Co Admin:	Janice Ho		

2020 Generator Info

Gen No:	ON6156175	**Choice of Contact:**	CO_OFFICIAL
ID:	24422	**Phone No Official:**	613.599.2222 Ext.
Contaminated Fac:	N	**Phone No Admin:**	613.599.2222 Ext.
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	621390	**County Out:**	
NAICS Code2:		**District:**	402

NAICS Code3:
Gen Name: Dr. Charles Kamel, Professional Dentistry Corporat
Gen Div:
Gen Op Name: Dr. Charles Kamel
Gen Op Div:
Site Adrs1: 120 - 525 Legget Drive
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Kanata
Province Out:
Site Postal Code: K2K 2W2
Site Country: Canada
Co Official: Sandra Mulder
Co Admin: Janice Ho

2021 Generator Info

Gen No: ON6156175
ID: 24814
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 621390
NAICS Code2:
NAICS Code3:
Choice of Contact: CO_OFFICIAL
Phone No Official: 613.599.2222 Ext.
Phone No Admin: 613.599.2222 Ext.
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402
Gen Name: Dr. Charles Kamel, Professional Dentistry Corporat
Gen Div:
Gen Op Name: Dr. Charles Kamel
Gen Op Div:
Site Adrs1: 120 - 525 Legget Drive
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Kanata
Province Out:
Site Postal Code: K2K 2W2
Site Country: Canada
Co Official: Sandra Mulder
Co Admin: Janice Ho

21	31 of 34	NE/246.0	76.8 / -5.09	***LaVie Executive Health Centre*** ***525 Legget Dr., Suite 150*** ***Kanata ON***	GEN

Generator Info

Generator No: ON8874529
Approval Years: As of Oct 2022
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:
Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Generator Info as of Dec 2024

Generator No:	ON8874529
Generator Company Name:	LaVie Executive Health Centre
Street:	525 Legget Dr., Suite 150
City:	Kanata
Province State:	Ontario
Country:	Canada
Postal Code:	K2K2W2
Waste Class:	312 P

Waste Class Decoded:

312 - PATHOLOGICAL WASTES

2017 Generator Info

Gen No:	ON8874529	***Choice of Contact:***	CO_OFFICIAL
ID:	34694	***Phone No Official:***	6135920862 Ext.230
Contaminated Fac:	N	***Phone No Admin:***	6135920862 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	621110	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			

Gen Name:	Sannoufi Medicine Professional Corporation
Gen Div:	
Gen Op Name:	La Vie Executive Health Center
Gen Op Div:	
Site Adrs1:	525 Legget Dr.
Site Bldg:	
Site Pobox:	
Province In:	ONTARIO
Site Adrs2:	Suite 150
Site City:	Kanata
Province Out:	
Site Postal Code:	K2K2W2
Site Country:	Canada
Co Official:	Caroline McEwen
Co Admin:	Reham Sannoufi

2017 Generator Manifest

ID:	62655	***Sum Received Qty:***	20.3
Generator No:	ON8874529	***Waste Class Name:***	PATHOLOGICAL WASTES
Receiver Type:	030	***Count Manifests:***	2
Waste Char:	P	***District:***	402
Waste Code:	312		

2018 Generator Info

Gen No:	ON8874529	***Choice of Contact:***	CO_OFFICIAL
ID:	35353	***Phone No Official:***	6135920862 Ext.230
Contaminated Fac:	N	***Phone No Admin:***	6135920862 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	621110	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			

Gen Name:	La Vie Medial Inc.
Gen Div:	
Gen Op Name:	La Vie Executive Health Center

Gen Op Div:
Site Adrs1: 525 Legget Dr.
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2: Suite 150
Site City: Kanata
Province Out:
Site Postal Code: K2K2W2
Site Country: Canada
Co Official: Caroline McEwen
Co Admin: Reham Sannoufi

2018 Generator Manifest

ID: 63078
Generator No: ON8874529
Receiver Type: 030
Waste Char: P
Waste Code: 312
Sum Received Qty: 24.9
Waste Class Name: PATHOLOGICAL WASTES
Count Manifests: 2
District: 402

2019 Generator Info

Gen No: ON8874529
ID: 35839
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 621110
NAICS Code2:
NAICS Code3:
Choice of Contact: CO_OFFICIAL
Phone No Official: 6135920862 Ext.230
Phone No Admin: 6135920862 Ext.
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402
Gen Name: La Vie Medial Inc.
Gen Div:
Gen Op Name: La Vie Executive Health Center
Gen Op Div:
Site Adrs1: 525 Legget Dr.
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2: Suite 150
Site City: Kanata
Province Out:
Site Postal Code: K2K2W2
Site Country: Canada
Co Official: Caroline McEwen
Co Admin: Reham Sannoufi

2019 Generator Manifest

ID: 63016
Generator No: ON8874529
Receiver Type: 030
Waste Char: P
Waste Code: 312
Sum Received Qty: 25.0
Waste Class Name: PATHOLOGICAL WASTES
Count Manifests: 2
District: 402

2020 Generator Info

Gen No: ON8874529
ID: 35560
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 621110
NAICS Code2:
Choice of Contact: CO_OFFICIAL
Phone No Official: 6135920862 Ext.230
Phone No Admin: 6135920862 Ext.
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402

NAICS Code3:
Gen Name: La Vie Medial Inc.
Gen Div:
Gen Op Name: La Vie Executive Health Center
Gen Op Div:
Site Adrs1: 525 Legget Dr.
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2: Suite 150
Site City: Kanata
Province Out:
Site Postal Code: K2K2W2
Site Country: Canada
Co Official: Caroline McEwen
Co Admin: Reham Sannoufi

2020 Generator Manifest

ID: 59250
Generator No: ON8874529
Receiver Type: 030
Waste Char: P
Waste Code: 312
Sum Received Qty: 13.3
Waste Class Name: PATHOLOGICAL WASTES
Count Manifests: 1
District: 402

2021 Generator Info

Gen No: ON8874529
ID: 36454
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 621110
NAICS Code2:
NAICS Code3:
Choice of Contact: CO_OFFICIAL
Phone No Official: 613-231-3666 Ext.
Phone No Admin: 6135920862 Ext.
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402
Gen Name: La Vie Medial Inc.
Gen Div:
Gen Op Name: La Vie Executive Health Center
Gen Op Div:
Site Adrs1: 525 Legget Dr.
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2: Suite 150
Site City: Kanata
Province Out:
Site Postal Code: K2K2W2
Site Country: Canada
Co Official: Caroline McEwen
Co Admin: Reham Sannoufi

2021 Generator Manifest

ID: 61856
Generator No: ON8874529
Receiver Type: 030
Waste Char: P
Waste Code: 312
Sum Received Qty: 18.62
Waste Class Name: PATHOLOGICAL WASTES
Count Manifests: 2
District: 402

2021 Generator Manifest

ID: 61855
Generator No: ON8874529
Sum Received Qty: 11.7
Waste Class Name: PATHOLOGICAL WASTES

Receiver Type:	035	**Count Manifests:**	1
Waste Char:	P	**District:**	305
Waste Code:	312		

21 **32 of 34** **NE/246.0** **76.8 / -5.09** **Wesley Clover International Corporation** **ECA**
525 Legget Dr 359 Terry Fox Drive
Ottawa ON K2K 0G7

Approval No:	8158-CMASST	**MOE District:**	Ottawa
Approval Date:	January 18, 2023	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	-8451369.0618999992
SWP Area Name:	Mississippi Valley	**Geometry Y:**	5676467.7039000001

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Wesley Clover International Corporation
Address: 525 Legget Dr 359 Terry Fox Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8715-CLNL66-14.pdf
PDF Site Location: Brookstreet Apartments
Part of Lot 8, Concession 4
City of Ottawa, Ontario

21 **33 of 34** **NE/246.0** **76.8 / -5.09** **525 LeGget Drive, Ottawa K2K2W2** **SPL**
OTTAWA ON

Ref No:	1-33Q10G	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:		**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	3/27/2023 9:10:15 AM	**Impact to Health:**	0 No Impact
Dt Document Closed:	3/28/2023 9:24:05 AM	**Agency Involved:**	

Site No:
MOE Response: Desktop Response
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa District Office
Nearest Watercourse: cb
Site Name:
Site Address: 525 LeGget Drive, Ottawa K2K2W2
Site Region:
Site Municipality: OTTAWA
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name:
Client Type:
Source Type: Motor Vehicle
Incident Cause:
Incident Preceding Spill:
Incident Reason: Unknown
Incident Summary: City of Ottawa - unk. amt. diesel to private cb
Environment Impact: 0 No Impact
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 0 other - see notes
Contaminant Qty 1:
Contaminant Unit:

Contaminant Code:
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land; Surface Water
Activity Preceding Spill:
Property 2nd Watershed: Lower Ottawa
Property Tertiary Watershed: 02KE - Lower Madawaska
Sector Type: HOTELS
SAC Action Class:
Call Report Locatn Geodata: {"integration_ids":["PR00003970127"],"wkts":["POINT (-75.9182498000 45.3482179000)"],"creation_date":"2023-03-27"}
Time Reported:
System Facility Address:

21	34 of 34	NE/246.0	76.8 / -5.09	WESLEY CLOVER INTERNATIONAL CORPORATION 525 Legget DR Ottawa ON K2K 2W2	EASR

Approval No: R-009-9297180747
Status: REGISTERED
Date: July 8, 2024
Record Type: EASR
Link Source: MOFA
Project Type: Water Taking - Construction Dewatering
Full Address:
MOE District: Ottawa
Municipality: Ottawa
Latitude: 45.34833333
Longitude: -75.91722222
Geometry X: -8451066.5201999992
Geometry Y: 5676527.1547999978
Approval Type: EASR-Water Taking - Construction Dewatering
SWP Area Name: Mississippi Valley
PDF NAICS Code:
PDF URL: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3567438
PDF Site Location: 525 Legget Drive
Ottawa ON K2K 2W2

22	1 of 2	S/247.1	81.9 / -0.06	Trend Micro, Inc. 40 Hines Rd Suite 200 Kanata ON K2K 2M5	SCT

Established: 01-AUG-98
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

22	2 of 2	S/247.1	81.9 / -0.06	KRP Properties 40 Hines Road Ottawa ON K2K 2M5	GEN

Generator Info

Generator No:	ON5372742	**Choice of Contact:**	
Approval Years:	As of Dec 2018	**Contaminated Fac:**	
Status:	Registered	**MHSW Facility:**	
PO Box No:		**SIC Code:**	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class:	146 T
Waste Class Name:	Other specified inorganic sludges, slurries or solids

2018 Generator Info

Gen No:	ON5372742	**Choice of Contact:**	CO_OFFICIAL
ID:	21421	**Phone No Official:**	613-591-0594 Ext.5100
Contaminated Fac:	N	**Phone No Admin:**	
MHSW Facility:	N	**County Ont:**	OTTAWA CARLTON (RM)
NAICS Code1:	531310	**County Out:**	
NAICS Code2:		**District:**	402
NAICS Code3:			
Gen Name:	KRP Properties		
Gen Div:			
Gen Op Name:	KRP Properties		
Gen Op Div:			
Site Adrs1:	40 Hines Road		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 2M5		
Site Country:	Canada		
Co Official:	Sara Carriere		
Co Admin:			

2018 Generator Manifest

ID:	45611	**Sum Received Qty:**	252.0
Generator No:	ON5372742	**Waste Class Name:**	OTHER SPECIFIED INORGANICS
Receiver Type:	035	**Count Manifests:**	1
Waste Char:	T	**District:**	402
Waste Code:	146		

23	*1 of 32*	*NNE/247.9*	*79.7 / -2.21*	***NOKIA IP TELEPHONY CORPORATION 555 LEGGET DR SUITE 400 KANATA ON K2K 2X3***	*SCT*

Established:	1995
Plant Size (ft²):	0
Employment:	170

--Details--

Description:	Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code:	334110
Description:	Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code:	334610

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	2 of 32	NNE/247.9	79.7 / -2.21	NOKIA 555 Legget Dr Suite 400 Kanata ON K2K 2X3	SCT

Established: 1995
Plant Size (ft²): 0
Employment: 170

--Details--
Description: Other Leather and Allied Product Manufacturing
SIC/NAICS Code: 316990

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Telephone Apparatus Manufacturing
SIC/NAICS Code: 334210

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Manufacturing and Reproducing Magnetic and Optical Media
SIC/NAICS Code: 334610

Description: Battery Manufacturing
SIC/NAICS Code: 335910

Description: All Other Electrical Equipment and Component Manufacturing
SIC/NAICS Code: 335990

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	3 of 32	NNE/247.9	79.7 / -2.21	March Networks 555 Legget Dr Suite 140 Kanata ON K2K 2X3	SCT

Established: 1991
Plant Size (ft²):
Employment: 55

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
SIC/NAICS Code: 334220

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	4 of 32	NNE/247.9	79.7 / -2.21	TELEXIS CORPORATION 555 LEGGET DRIVE, SUITE 210 KANATA ON K2K 2X3	GEN

Generator Info

Generator No:	ON2343800	***Choice of Contact:***	
Approval Years:	97,98,99,00,01	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	3352
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	ELECT. PARTS & COMP.		

Waste Detail(s)

Waste Class:	211
Waste Class Name:	AROMATIC SOLVENTS

Waste Detail(s)

Waste Class:	232
Waste Class Name:	POLYMERIC RESINS

Waste Detail(s)

Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS

Waste Detail(s)

Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

23	***5 of 32***	***NNE/247.9***	***79.7 / -2.21***	***PULSE CANADA LTD.*** ***555 LEGGET DRIVE SUITE 1036*** ***KANATA ON K2K 2X3***	***GEN***

Generator Info

Generator No:	ON2399800	***Choice of Contact:***	
Approval Years:	98,99,00,01	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	4839
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	OTHER TELECOMMUN.		

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

Waste Detail(s)

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

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23 | ***6 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***PULSE CANADA LTD.***
555 LEGGET DRIVE SUITE 1036 TWR B
KANATA ON K2K 2X3 | ***GEN***

Generator Info

Generator No: ON2399800
Approval Years: 02,03,04
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

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23 | ***7 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***March Networks Corporation***
555 Legget Dr
Ottawa ON K2K 2X3 | ***SCT***

Established: 1991
Plant Size (ft²):
Employment: 90

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

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23 | ***8 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***March Networks Corporation***
555 Legget Dr Suite 530
Kanata ON K2K 2X3 | ***SCT***

Established: 1991
Plant Size (ft²):
Employment:

--Details--
Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

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23 | ***9 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***KRP Management Services Inc.***
555 Legget Drive
Ottawa ON | ***GEN***

Generator Info

Generator No:	ON4875456	***Choice of Contact:***	
Approval Years:	06,07,08	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	561420 531120
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-		

Waste Detail(s)

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCB'S

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	10 of 32	NNE/247.9	79.7 / -2.21	**Redirack Storage Systems** **555 Legget Dr Tower A Suite 2007** **Ottawa ON K2K 2X3**	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Metal Service Centres
SIC/NAICS Code: 416210

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code: 417910

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Lumber, Plywood and Millwork Wholesaler-Distributors

SIC/NAICS Code: 416320

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Other Metal Container Manufacturing
SIC/NAICS Code: 332439

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23 | **11 of 32** | **NNE/247.9** | **79.7 / -2.21** | **March Networks**
555 Legget Drive
Ottawa ON K2K 2X3 | **GEN**

Generator Info

Generator No: ON6420281
Approval Years: 07,08
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

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23 | **12 of 32** | **NNE/247.9** | **79.7 / -2.21** | **Kanata Research Park Corporation**
555 Legget Drive
Ottawa ON | **CA**

Certificate #: 4220-5HUVP4
Application Year: 2003
Issue Date: 1/18/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	13 of 32	NNE/247.9	79.7 / -2.21	Netistix Technologies Corp 555 Legget Dr Suite 304 Kanata ON K2K 2X3	SCT

Established: 01-DEC-02
Plant Size (ft²):
Employment:

--Details--
Description: Office Administrative Services
SIC/NAICS Code: 561110

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	14 of 32	NNE/247.9	79.7 / -2.21	Sch Specialty Literacy/Interve 555 Legget Dr Suite 900 Kanata ON K2K 2X3	SCT

Established: 01-AUG-92
Plant Size (ft²):
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Software Publishers
SIC/NAICS Code: 511210

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	15 of 32	NNE/247.9	79.7 / -2.21	Redirack Storage Systems 555 Legget Dr Suite 1007 Kanata ON K2K 2X3	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Metal Service Centres
SIC/NAICS Code: 416210

Description: Other Metal Container Manufacturing
SIC/NAICS Code: 332439

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Lumber, Plywood and Millwork Wholesaler-Distributors

SIC/NAICS Code: 416320

Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Office and Store Machinery and Equipment Wholesaler-Distributors
SIC/NAICS Code: 417910

Description: Material Handling Equipment Manufacturing
SIC/NAICS Code: 333920

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	16 of 32	NNE/247.9	79.7 / -2.21	**Mediphan Inc.** **555 Legget Dr Suite 305** **Ottawa ON K2K 2X3**	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Description: Research and Development in the Physical, Engineering and Life Sciences
SIC/NAICS Code: 541710

Description: Medical Equipment and Supplies Manufacturing
SIC/NAICS Code: 339110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	17 of 32	NNE/247.9	79.7 / -2.21	**KRP Management Services Inc.** **555 Legget Drive** **Ottawa ON**	GEN

Generator Info

Generator No: ON4875456
Approval Years: 2009
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 561420, 531120

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

23	***18 of 32***	***NNE/247.9***	***79.7 / -2.21***	***KRP Management Services Inc.*** ***555 Legget Drive*** ***Ottawa ON***	***GEN***

Generator Info

Generator No: ON4875456
Approval Years: 2010
Status:
PO Box No:
Country:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 561420, 531120

Co Admin:
Phone No Admin:
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

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

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23 | **19 of 32** | **NNE/247.9** | **79.7 / -2.21** | **KRP Management Services Inc.**
555 Legget Drive
Ottawa ON | **GEN**

Generator Info

Generator No: ON4875456
Approval Years: 2011
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 561420, 531120

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 121

Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

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23 | **20 of 32** | **NNE/247.9** | **79.7 / -2.21** | **KRP Management Services Inc.**
555 Legget Drive
Ottawa ON | **GEN**

Generator Info

Generator No: ON4875456
Approval Years: 2012
Status:
PO Box No:
Country:
Co Admin:
Phone No Admin:
SIC Description: Telephone Call Centres, Lessors of Non-Residential Buildings (except Mini-Warehouses)

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code: 561420, 531120

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

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23 | ***21 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***KANATA RESEARCH PARK***
555 LEGGET Drive
KANATA ON K2K2X3 | ***NPRI***

NPRI ID:	8800000226	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	
Rpt Type ID:		***Cont First Name:***	
Report Year:	2004	***Cont Last Name:***	
Not-Current Rpt?:		***Contact Position:***	
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	TOWERS A & B	***Cont Area Code:***	
Fac Address1:		***Contact Tel.:***	
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	
Facility Lat:		***Contact Fax:***	
Facility Long:		***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	1036	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	

Pollut Prev Cmnts: ***No Off Sites:***
Stacks: ***Shutdown:***
No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Substance Release Report

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

23	***22 of 32***	***NNE/247.9***	***79.7 / -2.21***	***KRP Management Services Inc.*** ***555 Legget Drive*** ***Ottawa ON***	***GEN***

Generator Info

Generator No:	ON4875456	***Choice of Contact:***	
Approval Years:	2013	***Contaminated Fac:***	
Status:		***MHSW Facility:***	
PO Box No:		***SIC Code:***	561420, 531120
Country:			
Co Admin:			
Phone No Admin:			
SIC Description:	TELEPHONE CALL CENTRES, LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)		

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

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

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23 | ***23 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***555 Legget Dr Ottawa ON K2K2X3*** | ***EHS***

Order No:	20150903032	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	09-SEP-15	***Search Radius (km):***	.25
Date Received:	03-SEP-15	***X:***	-75.919803
Previous Site Name:		***Y:***	45.348953
Lot/Building Size:			
Additional Info Ordered:			

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23 | ***24 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***555 Legget Dr Ottawa ON K2K2X3*** | ***EHS***

Order No:	20150304029	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	09-MAR-15	***Search Radius (km):***	.25
Date Received:	04-MAR-15	***X:***	-75.919787
Previous Site Name:		***Y:***	45.349161
Lot/Building Size:			
Additional Info Ordered:			

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23 | ***25 of 32*** | ***NNE/247.9*** | ***79.7 / -2.21*** | ***Kanata Research Park Corporation 555 Legget Drive Ottawa ON K2K 2X3*** | ***ECA***

Approval No:	4220-5HUVP4	***MOE District:***	Ottawa
Approval Date:	2003-01-18	***City:***	
Status:	Approved	***Longitude:***	-75.909996
Record Type:	ECA	***Latitude:***	45.346844
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	Mississippi Valley	***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Kanata Research Park Corporation		
Address:	555 Legget Drive		

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8337-5DXR24-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	26 of 32	NNE/247.9	79.7 / -2.21	Kanata Research Park Corp. 555 Legget Drive Ottawa ON K2K 2X3	GEN

Generator Info

Generator No:	ON4875456	***Choice of Contact:***	CO_ADMIN
Approval Years:	2016	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	531310
Country:	Canada		
Co Admin:	Paul Allen		
Phone No Admin:	613-591-0594 Ext.		
SIC Description:	REAL ESTATE PROPERTY MANAGERS		

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

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23 | **27 of 32** | **NNE/247.9** | **79.7 / -2.21** | **Kanata Research Park Corp.**
555 Legget Drive
Ottawa ON K2K 2X3 | **GEN**

Generator Info

Generator No:	ON4875456	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2015	**Contaminated Fac:**	No
Status:		**MHSW Facility:**	No
PO Box No:		**SIC Code:**	531310
Country:	Canada		

Co Admin: Bob Bisson
Phone No Admin: 613-591-0594 Ext.
SIC Description: REAL ESTATE PROPERTY MANAGERS

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

23	***28 of 32***	***NNE/247.9***	***79.7 / -2.21***	***Kanata Research Park Corp.*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	***GEN***

Generator Info

Generator No:	ON4875456	***Choice of Contact:***	CO_OFFICIAL
Approval Years:	2014	***Contaminated Fac:***	No
Status:		***MHSW Facility:***	No
PO Box No:		***SIC Code:***	531310
Country:	Canada		
Co Admin:	Bob Bisson		
Phone No Admin:	613-591-0594 Ext.		
SIC Description:	REAL ESTATE PROPERTY MANAGERS		

Waste Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

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

Waste Detail(s)

Waste Class: 243
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class: 135
Waste Class Name: REACTIVE ANION WASTES

Waste Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

23	29 of 32	NNE/247.9	79.7 / -2.21	***KRP Properties A Division of Wesley Clover Interna*** ***555 Legget Drive*** ***Ottawa ON K2K 2X3***	GEN

Generator Info

Generator No: ON4875456
Approval Years: As of Dec 2018
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 243 D
Waste Class Name: PCB

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

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

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Detail(s)

Waste Class: 135 C
Waste Class Name: Wastes containing other reactive anions

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

23	30 of 32	NNE/247.9	79.7 / -2.21	**KRP Properties A Division of Wesley Clover Interna** **555 Legget Drive** **Ottawa ON K2K 2X3**	GEN

Generator Info

Generator No: ON4875456
Approval Years: As of Jul 2020
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

Waste Detail(s)

Waste Class: 243 D
Waste Class Name: PCB

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Waste Class: 135 C
Waste Class Name: Wastes containing other reactive anions

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

23	***31 of 32***	***NNE/247.9***	***79.7 / -2.21***	***KRP Properties A Division of Wesley Clover Interna 555 Legget Drive Ottawa ON K2K 2X3***	***GEN***

Generator Info

Generator No: ON4875456
Approval Years: As of Nov 2021
Status: Registered
PO Box No:
Country: Canada
Co Admin:
Phone No Admin:
SIC Description:

Choice of Contact:
Contaminated Fac:
MHSW Facility:
SIC Code:

Waste Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Detail(s)

Waste Class: 135 C
Waste Class Name: Wastes containing other reactive anions

Waste Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Detail(s)

Waste Class: 146 R
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Detail(s)

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Detail(s)

Waste Class: 243 D
Waste Class Name: PCB

Waste Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Detail(s)

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Detail(s)

Waste Class: 146 T
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: Halogenated pesticides and herbicides

23	32 of 32	NNE/247.9	79.7 / -2.21	**KRP Properties a division of Wesley Clover International** **555 Legget Drive**	GEN

Generator Info

Generator No:	ON4875456	***Choice of Contact:***	
Approval Years:	As of Oct 2022	***Contaminated Fac:***	
Status:	Registered	***MHSW Facility:***	
PO Box No:		***SIC Code:***	
Country:	Canada		
Co Admin:			
Phone No Admin:			
SIC Description:			

Waste Detail(s)

Waste Class:	213 I
Waste Class Name:	PETROLEUM DISTILLATES

Waste Detail(s)

Waste Class:	331 I
Waste Class Name:	WASTE COMPRESSED GASES

Waste Detail(s)

Waste Class:	148 C
Waste Class Name:	INORGANIC LABORATORY CHEMICALS

Waste Detail(s)

Waste Class:	146 T
Waste Class Name:	OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class:	146 R
Waste Class Name:	OTHER SPECIFIED INORGANICS

Waste Detail(s)

Waste Class:	145 I
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES

Waste Detail(s)

Waste Class:	212 L
Waste Class Name:	ALIPHATIC SOLVENTS

Waste Detail(s)

Waste Class:	112 C
Waste Class Name:	ACID WASTE - HEAVY METALS

Waste Detail(s)

Waste Class:	252 L

Waste Class Name: WASTE OILS & LUBRICANTS

Waste Detail(s)

Waste Class: 135 C
Waste Class Name: REACTIVE ANION WASTES

Waste Detail(s)

Waste Class: 243 D
Waste Class Name: PCBS

Waste Detail(s)

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Detail(s)

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Detail(s)

Waste Class: 242 A
Waste Class Name: HALOGENATED PESTICIDES

Generator Info as of Dec 2024

Generator No: ON4875456
Generator Company Name: KRP Properties a division of Wesley Clover International
Street: 555 Legget Drive
City: Ottawa
Province State: Ontario
Country: Canada
Postal Code: K2K2X3
Waste Class: 263 I, 212 L, 146 T, 243 D, 122 C, 148 C, 121 C, 145 I, 213 I, 331 I, 146 R, 252 L, 112 C, 135 C, 242 A

Waste Class Decoded:

263 - ORGANIC LABORATORY CHEMICALS; 212 - ALIPHATIC SOLVENTS; 146 - OTHER SPECIFIED INORGANICS; 243 - PCBS; 122 - ALKALINE WASTES - OTHER METALS; 148 - INORGANIC LABORATORY CHEMICALS; 121 - ALKALINE WASTES - HEAVY METALS; 145 - PAINT/PIGMENT/COATING RESIDUES; 213 - PETROLEUM DISTILLATES; 331 - WASTE COMPRESSED GASES; 146 - OTHER SPECIFIED INORGANICS; 252 - WASTE OILS & LUBRICANTS; 112 - ACID WASTE - HEAVY METALS; 135 - REACTIVE ANION WASTES; 242 - HALOGENATED PESTICIDES

Generator Info as of Dec 2024

Generator No: ON4875456
Generator Company Name: KRP Properties a division of Wesley Clover International
Street: 555 Legget Drive
City: Ottawa
Province State: Ontario
Country: Canada
Postal Code: K2K2X3
Waste Class: 212 L,146 T,243 D,122 C,148 C,121 C,145 I,213 I,331 I,146 R,252 L,112 C,135 C,242 A,263 I

Waste Class Decoded:

212 - ALIPHATIC SOLVENTS; 146 - OTHER SPECIFIED INORGANICS; 243 - PCBS; 122 - ALKALINE WASTES - OTHER METALS; 148 - INORGANIC LABORATORY CHEMICALS; 121 - ALKALINE WASTES - HEAVY METALS; 145 - PAINT/PIGMENT/COATING RESIDUES; 213 - PETROLEUM DISTILLATES; 331 - WASTE COMPRESSED GASES; 146 - OTHER SPECIFIED INORGANICS; 252 - WASTE OILS & LUBRICANTS; 112 - ACID WASTE - HEAVY METALS; 135 - REACTIVE ANION WASTES; 242 - HALOGENATED PESTICIDES; 263 - ORGANIC LABORATORY CHEMICALS

2017 Generator Info

Gen No:	ON4875456	***Choice of Contact:***	CO_ADMIN
ID:	19378	***Phone No Official:***	613-591-0594 Ext.3004
Contaminated Fac:	N	***Phone No Admin:***	613-591-0594 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	531310	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	KRP Properties A Division of Wesley Clover Interna		
Gen Div:			
Gen Op Name:	KRP Properties		
Gen Op Div:			
Site Adrs1:	555 Legget Drive		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 2X3		
Site Country:	Canada		
Co Official:	Ray Cleroux		
Co Admin:	Paul Allen		

2017 Generator Manifest

ID:	43296	***Sum Received Qty:***	424.0
Generator No:	ON4875456	***Waste Class Name:***	PAINT/PIGMENT/COATING RESIDUES
Receiver Type:	035	***Count Manifests:***	2
Waste Char:	I	***District:***	402
Waste Code:	145		

2017 Generator Manifest

ID:	43297	***Sum Received Qty:***	20.0
Generator No:	ON4875456	***Waste Class Name:***	INORGANIC LABORATORY CHEMICALS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	C	***District:***	402
Waste Code:	148		

2017 Generator Manifest

ID:	43298	***Sum Received Qty:***	20.0
Generator No:	ON4875456	***Waste Class Name:***	PETROLEUM DISTILLATES
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	213		

2018 Generator Info

Gen No:	ON4875456	***Choice of Contact:***	CO_ADMIN
ID:	19469	***Phone No Official:***	613-591-0594 Ext.3004
Contaminated Fac:	N	***Phone No Admin:***	613-591-0594 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)

NAICS Code1:	531310	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	KRP Properties A Division of Wesley Clover Interna		
Gen Div:			
Gen Op Name:	KRP Properties		
Gen Op Div:			
Site Adrs1:	555 Legget Drive		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 2X3		
Site Country:	Canada		
Co Official:	Ray Cleroux		
Co Admin:	Paul Allen		

2018 Generator Manifest

ID:	43214	***Sum Received Qty:***	363.0
Generator No:	ON4875456	***Waste Class Name:***	PAINT/PIGMENT/COATING RESIDUES
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	I	***District:***	402
Waste Code:	145		

2019 Generator Info

Gen No:	ON4875456	***Choice of Contact:***	CO_ADMIN
ID:	19474	***Phone No Official:***	613-591-0594 Ext.3004
Contaminated Fac:	N	***Phone No Admin:***	613-591-0594 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	531310	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	KRP Properties A Division of Wesley Clover Interna		
Gen Div:			
Gen Op Name:	KRP Properties		
Gen Op Div:			
Site Adrs1:	555 Legget Drive		
Site Bldg:			
Site Pobox:			
Province In:	ONTARIO		
Site Adrs2:			
Site City:	Ottawa		
Province Out:			
Site Postal Code:	K2K 2X3		
Site Country:	Canada		
Co Official:	Ray Cleroux		
Co Admin:	Paul Allen		

2020 Generator Info

Gen No:	ON4875456	***Choice of Contact:***	CO_ADMIN
ID:	19171	***Phone No Official:***	613-591-0594 Ext.3004
Contaminated Fac:	N	***Phone No Admin:***	613-591-0594 Ext.
MHSW Facility:	N	***County Ont:***	OTTAWA CARLTON (RM)
NAICS Code1:	531310	***County Out:***	
NAICS Code2:		***District:***	402
NAICS Code3:			
Gen Name:	KRP Properties A Division of Wesley Clover Interna		
Gen Div:			

Gen Op Name: KRP Properties
Gen Op Div:
Site Adrs1: 555 Legget Drive
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Ottawa
Province Out:
Site Postal Code: K2K 2X3
Site Country: Canada
Co Official: Ray Cleroux
Co Admin: Paul Allen

2020 Generator Manifest

ID: 39482
Generator No: ON4875456
Receiver Type: 035
Waste Char: T
Waste Code: 146
Sum Received Qty: 264.0
Waste Class Name: OTHER SPECIFIED INORGANICS
Count Manifests: 1
District: 402

2020 Generator Manifest

ID: 39483
Generator No: ON4875456
Receiver Type: 035
Waste Char: L
Waste Code: 212
Sum Received Qty: 208.0
Waste Class Name: ALIPHATIC SOLVENTS
Count Manifests: 1
District: 402

2020 Generator Manifest

ID: 39481
Generator No: ON4875456
Receiver Type: 035
Waste Char: I
Waste Code: 145
Sum Received Qty: 688.0
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES
Count Manifests: 2
District: 402

2021 Generator Info

Gen No: ON4875456
ID: 19289
Contaminated Fac: N
MHSW Facility: N
NAICS Code1: 531310
NAICS Code2:
NAICS Code3:
Choice of Contact: CO_ADMIN
Phone No Official: 613-591-0594 Ext.3004
Phone No Admin: 613-591-0594 Ext.
County Ont: OTTAWA CARLTON (RM)
County Out:
District: 402
Gen Name: KRP Properties A Division of Wesley Clover Interna
Gen Div:
Gen Op Name: KRP Properties
Gen Op Div:
Site Adrs1: 555 Legget Drive
Site Bldg:
Site Pobox:
Province In: ONTARIO
Site Adrs2:
Site City: Ottawa
Province Out:
Site Postal Code: K2K 2X3
Site Country: Canada
Co Official: Ray Cleroux
Co Admin: Mike Watters

2021 Generator Manifest

ID:	40794	***Sum Received Qty:***	15.0
Generator No:	ON4875456	***Waste Class Name:***	ALIPHATIC SOLVENTS
Receiver Type:	035	***Count Manifests:***	1
Waste Char:	L	***District:***	402
Waste Code:	212		

2021 Generator Manifest

ID:	40793	***Sum Received Qty:***	575.0
Generator No:	ON4875456	***Waste Class Name:***	PAINT/PIGMENT/COATING RESIDUES
Receiver Type:	035	***Count Manifests:***	2
Waste Char:	I	***District:***	402
Waste Code:	145		

Unplottable Summary

Total: 30 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		Kanata Research Park	Kanata ON	
CA		Kanata Research Park	Kanata ON	
CA		Kanata Research Park	Kanata ON	
CA		Part of Lots 7,8 and 9, Concession 3	Kanata ON	
CA		Part of Lots 7,8 and 9, Concession 3	Kanata ON	
CA		Part of Lots 7,8 and 9, Concession 3	Kanata ON	
CA		Kanata Research Park	Kanata ON	
CA	Briarridge Sewage Pumping Station	Lot 9, Concession 4	Ottawa ON	
CA	Kanata Research Park Corporation	Plan 4M-1203, Blocks 1 to 17	Ottawa ON	
CA	Kanata Research Park Corporation		Ottawa ON	
CA	Kanata Research Park Corporation	Plan 4M-1203, Blocks 1 to 17	Ottawa ON	
CA	WILLIAM S. BURNSIDE CANADA	HINES RD.	KANATA CITY ON	
CA	KANATA CITY - EAST MARCH TRUNK SEWERS	PROP.EASMT.-LEGGET DRIVE	KANATA CITY ON	
CA	WILLIAM S. BURNSIDE CANADA LTD.-PT.LOT 9	HINES RD./ON-SITE S-WAT. MGT.	KANATA CITY ON	
CA	MOSAID TECHNOLOGIES INCORPORATED	PT.LOT 8/CON.3,HINES RD., SWM	KANATA CITY ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORP.	PT.LOTS 8&9/C-4, HELMSDALE,SWM	KANATA ON	
CA	KANATA RESEARCH PARK CORP.	PT.LOT 9/CON.4,NEWBRIDGE (SWM)	KANATA CITY ON	

CA	WILLIAM S. BURNSIDE CANADA LTD.	HINES RD.	KANATA CITY ON
CA	KANATA CITY	LEGGET DRIVE	KANATA CITY ON
CA	WILLIAM S. BURNSIDE CANADA LTD.	STORMW. DET. FAC. HINES RD.	KANATA CITY ON
CA	KANATA RESEARCH PARK CORP./CROSS KEYS	STORMWATER MANAGEMENT FACILITY	KANATA CITY ON
EBR	Nortel Networks Corporation	Skyline- Tower VI Ottawa Ontario K2C 0A7 CITY OF OTTAWA	ON
GEN	Stantec	Legget Avenue	Ottawa ON
LIMO	Cumberland Landfill	Lot 9, Concession 3	Ottawa ON
PTTW	Kanata Research Park Corporation	Lots 8, 9 and 10, Concession 4, Ottawa, geographic area of Kanata CITY OF OTTAWA	ON
SPL	OTTAWA-CARLETON, REG. MUN.	LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE	KANATA CITY ON
SPL	City of Ottawa	LEGGET AND MARCH RD, KANATA<UNOFFICIAL>	Ottawa ON
SPL	Nortel Networks<UNOFFICIAL>	Nortel Networks<UNOFFICIAL>	Ottawa ON
WWIS		lot 8	ON

Unplottable Report

Site:
Kanata Research Park Kanata ON

Database:
CA

Certificate #:	8125-4MTJ36
Application Year:	02
Issue Date:	5/30/02
Approval Type:	Municipal & Private sewage
Status:	Revoked and/or Replaced
Application Type:	New Certificate of Approval
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive
Client City:	Kanata
Client Postal Code:	K2K 2X3
Project Description:	Construction of 3 (three) permanent stormwater management facilities to provide quality and quantity control.
Contaminants:	
Emission Control:	

Site:
Kanata Research Park Kanata ON

Database:
CA

Certificate #:	8125-4MTJ36
Application Year:	01
Issue Date:	2/6/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	Notice
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive
Client City:	Kanata
Client Postal Code:	K2K 2X3
Project Description:	Amendment requested by Technical Support Staff.
Contaminants:	
Emission Control:	

Site:
Kanata Research Park Kanata ON

Database:
CA

Certificate #:	8125- 4MTJ36
Application Year:	01
Issue Date:	3/29/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	Notice
Client Name:	Kanata Research Park Corporation
Client Address:	555 Legget Drive, Suite 206
Client City:	Kanata
Client Postal Code:	K2K 2X3
Project Description:	Design change of stormwater management pond 2 to allow encroachment of proposed Stealth Development and to provide for a second forebay
Contaminants:	
Emission Control:	

Site:
Part of Lots 7,8 and 9, Concession 3 Kanata ON

Database:
CA

Certificate #:	3263-4GRLJ4

Application Year: 00
Issue Date: 2/24/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 786473 Ontario Limited
Client Address: 1145 Hunt Club Rd., Suite 220
Client City: Ottawa
Client Postal Code:
Project Description: Watermains and appurtenances to be constructed in the Northtech Campus Subdivision. Including valves, valve chambers, fire hydrants and leads.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Part of Lots 7,8 and 9, Concession 3 Kanata ON

Certificate #: 0720-4GRL32
Application Year: 00
Issue Date: 2/24/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 786473 Ontario Limited
Client Address: 1145 Hunt Club Rd., Suite 220
Client City: Ottawa
Client Postal Code:
Project Description: Sanitary sewers and appurtenances to be constructed in the Northtech Campus Subdivision (Innovation Drive).
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Part of Lots 7,8 and 9, Concession 3 Kanata ON

Certificate #: 6584-4H2RW7
Application Year: 00
Issue Date: 3/5/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 786473 Ontario Limited
Client Address: 1145 Hunt Club Rd., Suite 220
Client City: Ottawa
Client Postal Code:
Project Description: Installation of storm sewer and appurtenances for the Northtech Campus Subdivision.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Kanata Research Park Kanata ON

Certificate #: 5816-5ALKNH
Application Year: 02
Issue Date: 5/30/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Amended CofA
Client Name: Kanata Research Park Corporation
Client Address: 555 Legget Drive, Suite 206
Client City: Kanata
Client Postal Code: K2K 2X3
Project Description: Increase Storage Volumes for Stormwater Management Pond No. 3.
Contaminants:
Emission Control:

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

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

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

Database: ***CA***

Certificate #: 3807-62PHBL
Application Year: 2004
Issue Date: 8/13/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

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

Site: ***WILLIAM S. BURNSIDE CANADA***
HINES RD. KANATA CITY ON

Database: ***CA***

Certificate #: 3-1921-89-
Application Year: 89
Issue Date: 10/3/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY - EAST MARCH TRUNK SEWERS***
PROP.EASMT.-LEGGET DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 3-2442-89-
Application Year: 89
Issue Date: 12/18/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD.-PT.LOT 9***
HINES RD./ON-SITE S-WAT. MGT. KANATA CITY ON

Database: ***CA***

Certificate #: 3-1024-92-
Application Year: 92
Issue Date: 9/18/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MOSAID TECHNOLOGIES INCORPORATED***
PT.LOT 8/CON.3,HINES RD., SWM KANATA CITY ON

Database: ***CA***

Certificate #: 3-0773-97-
Application Year: 97
Issue Date: 8/13/1997
Approval Type: Municipal sewage

Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database: ***CA***

Certificate #: 3-0372-96-
Application Year: 96
Issue Date: 6/20/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOTS 8&9/C-4, HELMSDALE,SWM KANATA ON

Database: ***CA***

Certificate #: 3-1056-98-
Application Year: 98
Issue Date: 9/18/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP.***
PT.LOT 9/CON.4,NEWBRIDGE (SWM) KANATA CITY ON

Database: ***CA***

Certificate #: 3-0095-94-
Application Year: 94
Issue Date: 3/15/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD.***
HINES RD. KANATA CITY ON

Database: ***CA***

Certificate #: 7-1597-89-
Application Year: 89
Issue Date: 10/3/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA CITY***
LEGGET DRIVE KANATA CITY ON

Database: ***CA***

Certificate #: 7-1141-88-
Application Year: 88
Issue Date: 7/28/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***WILLIAM S. BURNSIDE CANADA LTD.***
STORMW. DET. FAC. HINES RD. KANATA CITY ON

Database: ***CA***

Certificate #: 3-1831-89-
Application Year: 89
Issue Date: 1/21/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***KANATA RESEARCH PARK CORP./CROSS KEYS***
STORMWATER MANAGEMENT FACILITY KANATA CITY ON

Database: ***CA***

Certificate #: 3-0160-90-
Application Year: 90
Issue Date: 1/22/1991
Approval Type: Municipal sewage
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Nortel Networks Corporation***
Skyline- Tower VI Ottawa Ontario K2C 0A7 CITY OF OTTAWA ON

Database: ***EBR***

EBR Registry No:	IA00E1245	***Decision Posted:***	
Ministry Ref No:	2022-4MKNWW	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	February 08, 2002	***Act 2:***	
Proposal Date:	July 27, 2000	***Site Location Map:***	
Year:	2000		

Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Nortel Networks Corporation
Site Address:
Location Other:
Proponent Name:
Proponent Address: P.O. Box 3511, Station 'C', Ottawa Ontario, K1Y 4H7
Comment Period:
URL:
Summary:

Site Location Details:

Skyline- Tower VI Ottawa Ontario K2C 0A7 CITY OF OTTAWA

Site: ***Stantec***
Legget Avenue Ottawa ON

Database: ***GEN***

Generator Info as of Dec 2024

Generator No: ON001060346
Generator Company Name: Stantec
Street: Legget Avenue
City: Ottawa
Province State: Ontario
Country: Canada
Postal Code: K1K 2E1
Waste Class: 146 L

Waste Class Decoded:

146 - OTHER SPECIFIED INORGANICS

Site: ***Cumberland Landfill***
Lot 9, Concession 3 Ottawa ON

Database: ***LIMO***

ECA/Instrument No:	A461602	***Natural Attenuation:***	
Operation Status:	Closed	***Liners:***	
C of A Issue Date:		***Cover Material:***	
C of A Issued to:		***Leachate Off-Site:***	
Lndfl Gas Mgmt (P):		***Leachate On Site:***	
Lndfl Gas Mgmt (F):		***Req Coll Lndfll Gas:***	
Lndfl Gas Mgmt (E):		***Lndfll Gas Coll:***	
Lndfl Gas Mgmt Sys:		***Total Waste Rec:***	
Landfill Gas Mntr:		***TWR Methodology:***	
Leachate Coll Sys:		***TWR Unit:***	
ERC Est Vol (m3):		***Tot Aprv Cap Unit:***	
ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***Region:***	Eastern

Source File Type:		***District Office:***	Ottawa
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Air Emis Monitor:			
Approved Waste Type:			
Client Site Name:			
ERC Methodology:			
Site Name:	Cumberland Landfill		
Site Location Details:			
Service Area:			
Page URL:			

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

Database: ***PTTW***

EBR Registry No:	IA05E1015	***Decision Posted:***	
Ministry Ref No:	ER-3083-67XPBX	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	November 02, 2005	***Act 2:***	
Proposal Date:	June 29, 2005	***Site Location Map:***	
Year:	2005		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			
Posted By:			
Company Name:	Kanata Research Park Corporation		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	555 Legget Drive, Kanata Ontario, K2K 2X3		
Comment Period:			
URL:			
Summary:			

Site Location Details:

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

Site: ***OTTAWA-CARLETON, REG. MUN.***
LEGGETT DRIVE, MARCH ROAD PUMP STATION, UNDERGROUND FUEL TANK. KANATA SITE-MARCH ROAD PUMP STATION LEGGETT DRIVE KANATA CITY ON

Database: ***SPL***

Ref No:	134351	***Municipality No:***	20103
Year:		***Nature of Damage:***	
Incident Dt:	//	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	11/18/1996	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	KANATA CITY		
Site Lot:			

Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name:
Client Type:
Source Type:
Incident Cause: CONTAINER OVERFLOW
Incident Preceding Spill:
Incident Reason: EQUIPMENT FAILURE
Incident Summary: REG. MUN. OTTAWA-CARLETONL.U.S.T. FUEL LEAKING OUTTOP OF THE TANK.
Environment Impact: POSSIBLE
Health Env Consequence:
Nature of Impact: Soil contamination
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

Site: ***City of Ottawa***
LEGGET AND MARCH RD, KANATA<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No: 0123-64NQX5
Year:
Incident Dt: 9/9/2004
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/9/2004
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa
Nearest Watercourse:
Site Name: LEGGET AND MARCH RD, KANATA<UNOFFICIAL>
Site Address:
Site Region: Eastern
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name: City of Ottawa
Client Type:
Source Type:
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Preceding Spill:
Incident Reason: Equipment Failure
Incident Summary: Legget & March Rd SPS,raw,unchlorin,equip failure
Environment Impact: Possible
Municipality No:
Nature of Damage:
Discharger Report:
Material Group: Waste
Impact to Health:
Agency Involved:

Health Env Consequence:
Nature of Impact: Surface Water Pollution
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Water
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Spill to Inland Watercourses
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

Site: ***Nortel Networks<UNOFFICIAL>***
Nortel Networks<UNOFFICIAL> Ottawa ON

Database: ***SPL***

Ref No: 4030-6GTJE2
Year:
Incident Dt: 9/28/2005
Dt MOE Arvl on Scn:
MOE Reported Dt: 10/3/2005
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Ottawa
Nearest Watercourse:
Site Name: Nortel Networks<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Entity Operating Name:
Client Name: Nortel Networks<UNOFFICIAL>
Client Type:
Source Type:
Incident Cause:
Incident Preceding Spill:
Incident Reason:
Municipality No:
Nature of Damage:
Discharger Report: 0
Material Group: Gases/Particulate
Impact to Health:
Agency Involved:
Incident Summary: Spill to Air
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Contaminant Code:
Contaminant Name: HALON (CFC)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Air
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:

Sector Type: Other
SAC Action Class: Spills at Federal Facilities & Spills of National Interest
Call Report Locatn Geodata:
Time Reported:
System Facility Address:

Site:
lot 8 ON

Database: ***WWIS***

Well ID: 1500396
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OTTAWA CITY (GLOUCESTER)
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/26/1948
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1107
Form Version: 1
Owner:
County: OTTAWA-CARLETON
Lot: 008
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10022441
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/29/1947
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 930989161
Layer: 1
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	930989162
Layer:	2
Color:	
General Color:	
Material 1:	26
Material 1 Desc:	ROCK
Material 2:	19
Material 2 Desc:	SLATE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	28.0
Formation End Depth:	51.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500396
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10571011
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037815
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	28.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037816
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	51.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	991500396
Pump Set At:	
Static Level:	6.0
Final Level After Pumping:	6.0
Recommended Pump Depth:	
Pumping Rate:	8.0
Flowing Rate:	

Recommended Pump Rate: 8.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933452913
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 51.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2024

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Apr 2024

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Apr 30, 2025

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2023

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

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

Government Publication Date: 1999-Apr 30, 2025

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Apr 2025

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Apr 2025

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - May 31, 2025

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Aug 2024

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011 - May 31, 2025

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - May 31, 2025

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011 - May 31, 2025

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 31, 2024

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment, Conservation and Parks (MECP). These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2024

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jan 2025

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. As of January 1, 2023, businesses and institutions subject to the amended Reg. 347: General – Waste Management are required to report their activities and pay fees through Resource Productivity & Recovery Authority (RPRA) online Hazardous Waste Program Registry (HWPR) rather than the Hazardous Waste Information Network (HWIN) system previously operated by the Ministry of the Environment, Conservation and Parks (MECP). Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Dec 31, 2024

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Apr 2024

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2025

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment Conservation and Parks (MECP) provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act. MECP publicly releases the Environmental Compliance Report (ECR) on the Ontario Data Catalogue. In Ontario, all facilities with regulated wastewater discharges or air emissions under the Ontario Water Resources Act and the Environmental Protection Act must monitor and report any cases where approved operating limits have been exceeded.

Government Publication Date: Dec 31, 2023

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-May 31, 2025

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Feb 2024

National Pollutant Release Inventory - Historic: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2025

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database includes well owner/operator, location, permit issue date, and well cap date, license number, status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provided for each well record.

Government Publication Date: 1800-Aug 2024

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - May 31, 2025

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011 - May 31, 2025

Ontario PFAS Spills: Provincial PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Jun 2024; Aug 2024; Oct-Nov 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Feb 2024

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Feb 2024

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing 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

Potential PFAS Handlers from EASR: Provincial PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - May 31, 2025

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-May 2025

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Apr 30, 2025

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Jun 2024; Aug-Feb 2025

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2021

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Apr 2024

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011 - May 31, 2025

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix D

Site Photographs

Site Photographs



Photo 1 *View of Site (Parking Lot), facing North. Adjacent Nokia office towers (left) and adjacent office towers (right; beyond Legget Drive) observed.*



Photo 2 ***View of eastern and southern end of Site (parking lot), facing South. Adjacent Sanmina building observed beyond tree line.***



Photo 3 ***View of northern end of Site (parking lot), facing northwest, adjacent to Nokia Office Complex property north of property.***



Photo 4 ***View of Legget Drive, facing North. Typical adjacent office and hotel towers observed.***



Photo 5 ***View of March Road, facing Southwest. Typical office and commercial buildings observed.***

Note: Additional photos of the Overall Nokia Office Property and adjacent properties are provided in the 2022 GHD Phase One ESA (refer to Appendix B).

