

Phase One Environmental Site Assessment
289 Carling Avenue
Ottawa, Ontario

Prepared for: The City of Ottawa

Real Estate Partnerships and Developments Office 5th Floor 110 Laurier Avenue West Ottawa, Ontario K1P 1J1

March 2017

FINAL REPORT

DST File No.: GV-SO-027667

DST Consulting Engineers Inc.

Executive Summary

DST Consulting Engineers Inc. (DST) was retained by the City of Ottawa to conduct a Phase One Environmental Site Assessment (ESA) of the property located at 289 Carling Avenue in Ottawa, Ontario ("the Site" or "phase one property"). DST has performed this Phase One ESA in accordance with the Ontario Regulation 153/04 *Records of Site Condition*, as amended.

The objective of this Phase One ESA was to evaluate actual and potential environmental concerns on the Site by assessing potential impairment through current and/or historical uses of the Site and surrounding properties. Information regarding the Phase One study area was compiled through a records review, database searches, Site reconnaissance and an interview with a knowledgeable phase one property representative.

Federal, provincial, private agencies and other databases were searched during the records review for indicators of potential contaminating activities regarding the Site and near-by properties. Responses from the Ontario Ministry of Natural Resources and Forest, Environment Canada, the Ministry of Environment and Climate Change Freedom of Information and the City of Ottawa Historical Land Use have been received. These data base searches did not turn up any relevant information for the Phase One Property.

The Phase One property is a parking lot. No on-site structures and/ or other facilities are present. DST conducted a Site reconnaissance on October 27, 2016. Based on the aerial photograph review (1928 to 1950), the property was developed with at least one building. Between 1950 and 1958, Site usage is not known. The 1958 aerial photograph showed the site as a parking lot with several vehicles parked along the property edges.

Several potentially contaminating activities within the Phase One Study Area were identified. These activities are summarized in the table below.

Potential Contaminating Activities (PCAs)

| Potentially Contaminating Activity No. | Potentially Contaminating Activity | Details | Location of PCA |
|--|---|--|--------------------------|
| PCA 1 | Unknown Historical Use prior to 1958. Possible Industrial. | HLUI Report documented a possible Quarry and an unnamed waste disposal site with unknown addresses. A 1958 aerial photo showed the Site as having ground disturbances and/or structures which could be part of Fraserfield Lumber Yard. Intera Consulting 1997 Phase II ESA Report documented metal concentrations exceeding selected guidelines | On Site – entire site |

| Potentially | Potentially | | |
|----------------------------|--|---|--|
| Contaminating Activity No. | Contaminating Activity | Details | Location of PCA |
| PCA 2 | Former Lumber Yard, Former Quarry, Former UST location | HLUI Report documented a possible quarry and a former UST at the property immediately west of the Site. The 1915 FIP showed a surface pond. The 1915 FIP and 1958 aerial photo showed the area as potentially have been part of Fraserfield Lumber Yard | Off-Site – immediately west of the Site which includes the entire property west of Bell Street |
| PCA 3 | Lumber Yard | The 1901 FIP, 1915 FIP and 1958 aerial photo documented the area as part of Fraserfield Lumber Yard (HLUI documented area as J.R. Booth's Lumber Yard). | Off-Site - immediately south of Site |
| PCA 4 | Gasoline and Associated Products Storage in Fixed Tanks | HLUI Report and the 1958 aerial photo documented the property located at the corner of Bronson Avenue and Carling Avenue as a retail fuel outlet from 1948 to 1980. | Off Site – approximately 135 m east of the site |
| PCA 5 | Gasoline and Associated Products Storage in Fixed Tanks | HLUI Report, the 1958 aerial photo and 1965 FIP documented the property located at the corner of Bronson and Carling Avenues a retail fuel outlet from 1956 to 2005. | Off Site – approximately 140 m east - southeast of the site |
| PCA 6 | Gasoline and Associated Products Storage in Fixed Tanks | The 1956 FIP and HLUI report documented the property located at Carling Avenue and Lebreton Street as a retail fuel outlet from 1941 to 1956. Water well records identified waste material on log descriptions for monitoring wells drilled on this property. | Off Site – approximately 100 m west of the site |
| PCA 7 | PCB spill from Pole Transformer | ERIS report documented a PCB spill at the property located 326 Powell Street. | Off-Site – approximately 110 m North of the site |
| PCA 8 | Gasoline and Associated Products Storage in Fixed Tanks | The 1956 FIP and HLUI report documented the property located at Carling Avenue and Booth Street as a retail fuel outlet from 1941 to 1956. | Off Site – approximately 125 m west of the site |
| PCA 9 | Former Landfill | The HLUI report documented a former landfill (Ur-21) at the current location of Commissioner Park | Off Site – approximately 120 m southwest of the site |

The potentially contaminating activities as identified above have contributed to one area of potential environmental concern which includes the entire Site. The area is summarized in the table below.

Areas of Potential Environmental Concern (APECs)

| APEC No. | Potential Source of Contamination | Contaminants of Potential Concern (COPCs) |
|----------|--|---|
| | On-site Sources: documented on-site metal concentrations exceeding MOE guidelines, possible disposal facility, unknown land-usage prior to 1958. | |
| APEC 1 | Off-site sources: Possible waste disposal facility, former near-by quarry, former near-by lumber yard, nearby former retail fuel stations and USTs, near by PCB spill. | BTEX, PHCs F1 - F4, PAHs, VOCs, Phenols, pH, metals |

Notes:

BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

PHCs F1-F4 - Petroleum Hydrocarbons Fractions (F1 - F4)

VOCs - Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

A Phase Two ESA to assess soil and groundwater conditions at the Site is recommended.

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1. Introduction

1.1 General

DST Consulting Engineers Inc. (DST) was retained by the City of Ottawa (the "Client") to conduct a Phase One Environmental Site Assessment (Phase One ESA) of the property located at 289 Carling Avenue in Ottawa, Ontario ("the Site" or "Phase One property"). A Site Location Map is attached in Appendix A, as Figure 1.

DST has performed this Phase One ESA in accordance with Ontario Regulation (O. Reg.) 153/04 Records of Site Condition, as amended.

The objective of this Phase One ESA was to evaluate actual and potential environmental concerns at the Site which includes the potential for environmental impacts though current and/or historical uses of the Site and surrounding properties. This Phase One ESA is intended to be utilized as supporting documentation to transfer land ownership from the current owner to the Client for potentially re-zoning the property to a different use other than a surface parking lot and, to obtain a Record of Site Condition (RSC).

Information regarding the Site and Phase One Study Area was compiled through a records review, site reconnaissance, and interviews. The Phase One Study Area, as defined by O. Reg. 153/04, is the area within 250 m of the Phase One Property boundaries. Figure 2 showing the boundaries of the Site and the Phase One Study Area is attached in Appendix A.

Authorization to proceed was provided by Mr. Richard Baker, an employee and project manager with the City of Ottawa. Contact details are provided below:

Name: Richard Barker

Rationale: City of Ottawa employee Phone No.: (613) 580-2424 ext. 21517

Address: 5th Floor 110 Laurier Avenue West, Ottawa, ON

1.2 Phase One Property Information

The Site, located at the northeast corner of Carling Avenue and Bell Street in Ottawa, Ontario, is situated in a municipal urban setting of mixed commercial, residential, and institutional land uses. The Site is currently part of the staff parking lot No.: 66 operated by the Government of Canada. The Site is paved with asphalt, has some landscaping adjacent the property boundaries and is approximately 0.13 ha (0.31 acres).

The Site Location Map and Phase One study area are illustrated in Figures 1 and 2 in Appendix A, respectively.

The legal description of the Site is: Plan 31326, Part Lots 8, 9 and 11, and Lot 10. Property Identification Number (PIN): 041040234(LT).

The Canada Lands Company CLC Limited is the current owner of the above-listed lots of land.

2. Scope of Investigation

2.1 Scope of Investigation

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

- > A records review;
- > A Site reconnaissance visit;
- Interviews with a knowledgeable Phase One property representative;
- ➤ An evaluation of the information gathered from the records review, database searches, Site reconnaissance visit and interview; and,
- ➤ The preparation and submission of a Phase One ESA report.

3. Records Review

3.1 General

Requests for information were submitted to the City of Ottawa Historical Land Use Inventory (HLUI), the Ontario Ministry of Natural Resources (OMNR), the Ministry of Environment and Climate Change-Freedom of Information (MOECC-FOI), Environment Canada (EC), and Ecolog ERIS. The agencies contacted, information requested, and responses received are summarized in the following sub-sections.

3.1.1 Phase One Study Area Determination

The Phase One Study Area encompasses all properties wholly and partly located within 250 metres of the Phase One Property boundaries. The Phase One Property and adjacent properties are shown on Figure 2 in Appendix A.

3.1.2 First Developed Use Determination

Based upon information provided through available historical aerial photographs, fire insurance plans, property records review, the Phase One Property was constructed to it's current use as a parking lot sometime between 1951 and 1958. The 1958 aerial photo shows the site as a parking lot. The Site land use from 1951 to 1958 is not known as there was no available information to determine exact usage. An aerial photograph from 1950 shows the property with a building. The 1938 aerial photograph also showed a rectangular structure on the Phase One Property.

Documentation which could assist in determining a more precise first development date was not available during this assessment. Considering the Site's proximity to the Fraserfield Lumber Yard as documented on the 1901 Fire Insurance Plan, land use prior to 1938 may have been industrial and/or commercial.

3.1.3 Fire Insurance Plans

DST retained the services of EcoLog ERIS to search for available fire insurance plans (FIPs) for the Phase I ESA Study area. FIPs from 1901, 1915 and 1963, were reviewed.

The 1901 FIP showed the Site as vacant with no municipal address. Carling Avenue is also not present on this FIP, however a street labelled as Dyson is located west of the Site in a similar location as Carling Avenue. The Fraserfield Lumber Yard (potentially owned by J.R. Booth) is documented as having been located immediately south, west and northwest of the Site. The Fraserfield Lumber Yard has multiple rectangular structures, possible rail spurs and several possible buildings. There are several buildings located to the north of the Site. The 1901 FIP did not provide any documentation for properties east of the Site.

The 1915 FIP does not shoe the site, just the property boundary adjacent Bell Street. The 1915 FIP does shows Carling Avenue previously identified as Dyson. The Fraserfield Lumber Yard is still present. The Site now appears to be sectioned off as its own lot. A "pond" was documented

on south side of the west adjacent property between Lebreton and Bell Streets. There are several buildings documented on the properties to the north and east of the Site.

The 1963 FIP shows the site as an irregular parcel with no structures in the current parking lot development. There are two structures located on the north side of the parcel which are now the north adjacent property. The property west of the Site (between Bell Street and Lebreton Street) appears to be owned by the Federal District Commission. This property appears to have a least four connected buildings which may be commercial. A UST was also documented on the Federal District Commission property. Further west, on the property between Lebreton and Booth Streets, is a gas service station (SE corner) and a garage with auto repair operations (SW corner). The service station was documented as having at least three underground storage tanks (USTs) while the garage had two USTs. A garage, wood works and auto operations were documented for the property located north and west of the Site. Immediately east of the Site, the adjacent property appears to be owned by the Ottawa Suburban Roads Commission. This property appears to have had two structures, one documented as storage and the other as a road implement shed. The properties south of the Site appear to be residential. A gasoline service station with potentially three USTs was documented for the SW corner of Carling Avenue and Bronson Avenue. A hydroelectric Sub-station was identified at the NE corner of Carling and Bronson Avenues. The remaining properties, east, northeast and southeast of the site appear to be a mix of industrial, commercial and residential.

Potential contaminating activities (PCAs) indented in the FIPs include the Fraserfield Lumber Yard and several UST locations.

A copy of the FIPs is provided in Appendix B.

3.1.4 Chain of Title

DST retained the services of EcoLog ERIS to conduct a title search for the Site. The results of the title search indicate that the Site is currently owned by Canada Lands Company CLC Limited. A summary of Title ownership from current to 1809 is provided in Table 3-1.

Table 3-1: Summary of Current and Historical Title Ownership

| Date(s) | Ownership(s) | | |
|----------------|--|--|--|
| | | | |
| 2014 - current | Canada Lands Company CLC Limited | | |
| 2014 – 1972 | Her Majesty The Queen In Right of Canada, represented by The Minster of Public Works | | |
| 1972 – 1900 | National Capital Commission (Previously known as the Federal District Commission | | |
| 1900 | Hilda Sherwood and Henry Sherwood | | |
| 1900 – 1891 | Ethel and Arthur Sherwood | | |
| 1891 – 1868 | Emily Sherwood | | |
| 1868 – 1853 | Honorable George Sherwood | | |
| 1853 – 1820 | Levius P. Sherwood | | |

| Date(s) | Ownership(s) |
|-------------|--|
| 1820 | John LeBreton and Sheriff Stewart (Sheriff's Deed) |
| 1820 – 1809 | Robert Randell |
| Pre-1809 | Crown |

No PCAs were identified with the historical titles review. All relevant legal title documentation is provided in Appendix B.

3.1.5 Ontario Ministry of Natural Resources

The Ontario Ministry of Natural Resources (OMNR) was contacted on October 27, 2016, by DST for information regarding species at risk, environmentally sensitive sites, and Areas of Natural and Scientific Interest (ANSI) associated with the Phase One study area. A response from the OMNR remains outstanding. If information provided by the OMNR alters the conclusions of this report, an addendum to the report will be provided.

3.1.6 Environment Canada

Environment Canada was contacted on October 27, 2016, under the Freedom of Information Act for information on the Phase one property related to environmental concerns (general correspondence, occurrence reports, and abatements), orders, tanks, spills, investigations and prosecutions, waste generators. This included certificates of approvals including air emissions, water, sewage, waste water, industrial discharge, waste systems and pesticide licenses. A response from Environment Canada remains outstanding. If information provided by Environment Canada alters the conclusions of this report, an addendum to the report will be provided.

3.1.7 Ministry of Environment and Climate Change – Freedom of Information (MOECC – FOI)

The MOECC-FOI was contacted for information on the Phase One property, such as past or existing environmental permits, existing environmental orders, fuel storage tanks, or any other environmentally related information. The request for information was submitted on October 27, 2016. A response from the MOECC remains outstanding. If information provided by the MOECC alters the conclusions of this report, an addendum to the report will be provided.

3.1.8 City of Ottawa Historical Land Use Inventory (HLUI)

The City of Ottawa HLUI records for the Site and surrounding properties identified at least two historical gas stations east of the Site (on the corners of Bronson and Carling Avenues) and an unnamed waste disposal site (unknown address) near the Site. In addition, the Federals District Property land located at 291 Carling Avenue which is west of the Site, was documented to have had at least one historical UST. Commissioner Park which is located approximately 120 metres southwest of the Phase One Property was documented as a former landfill (Ur-21). These former activities are potentially contaminating activities (PCAs). The City of Ottawa HLUI search results for the Phase One property and surrounding properties are included in Appendix C.

3.1.9 Waste Disposal Site Inventory

The MOECC Waste Disposal Site Inventory (October 1990) was consulted and no former waste disposal sites are present within 1.5 km of the Phase One Property. The City of Ottawa Landfill Management Strategy Phase 1 – Identification of Sites Report indicated that government owned landfill (ld.: UR-21) was located in the current location of Commissioner Park just east of Dow Lake. The report indicated that the former landfill site was built prior to 1924 and had an area of 4 ha. The report also indicated that the landfill foot print was defined but no groundwater or soil sampling has been reported.

3.1.10 Environmental Reports

The following reports of historical environmental investigations at the Phase One Property were reviewed by DST:

- DST Consulting Engineers Inc. March 2014. "Environmental Liability Assessment. The Bell Street Parking Lt, 289 Carling Avenue, Ottawa, Ontario." DST File No.: OE-OT-017959.
- ➤ Public Works and Government Services Canada. July 2007. "PWGSC Property Review Standard, Bell Street Parking Lot, Ottawa, Ontario." DFRP No.: 08887, Project No.: 497855.
- ➤ Intera Consultants Inc. November 1997. "Phase II Environmental Site Assessment of the Bell Street Parking Lot, Ottawa, Ontario." Prepared for Public Works and Government Services Section. File No.: 97-237.

The findings and conclusions/recommendations of the reports are discussed in subsections below.

DST Consulting Engineers Inc. March 2014. "Environmental Liability Assessment. The Bell Street Parking Lt, 289 Carling Avenue, Ottawa, Ontario." DST File No.: OE-OT-017959.

Previous environmental investigations indicated the presence of metals-contaminated soil at the Site. Based on the site conditions, DST recommended site remediation and a preliminary quantitative human health and ecological risk assessment.

Public Works and Government Services Canada. July 2007. "PWGSC Property Review Standard, Bell Street Parking Lot, Ottawa, Ontario." DFRP No.: 08887, Project No.: 497855.

PWGSC indicated that metal contaminated soils were present onsite. The report also indicated asphalt wear and tear that required repair or replacement. Actions recommended in the report included asphalt repairs for risk management of metal impacted soils and/or soil remediation.

Intera Consultants Inc. November 1997. "Phase II Environmental Site Assessment of the Bell Street Parking Lot, Ottawa, Ontario." Prepared for Public Works and Government Services Section. File No.: 97-237.

The Phase II Environmental Site Assessment conducted by Intera Consultants Inc. identified metal impacted fill from surface to approximately 0.84 metres deep. Metal concentrations of barium, copper, molybdenum and zinc detected in collected soil samples exceed either the 1997 Canadian Soil Quality Guidelines and/or the 1996 Ontario Ministry of Environment Table B Soil Criteria. Groundwater samples were collected from two installed monitoring wells but were not submitted for metal analyses. The report indicated that approximately 850 m³ of metal impacted soil would require remediation to meet the selected site guidelines and/or criteria. Groundwater was indicated as not being impacted however the collected samples were not submitted for metal analyses. The report also indicated that the metal impacted soils were encapsulated by the layer of asphalt at the site which would make it inaccessible to the public.

3.2 Environmental Source Information

An EcoLog ERIS report for the Site, and the surrounding area within a 250 m radius of the property, was obtained and reviewed by DST as part of this Phase One ESA. EcoLog ERIS searches selected databases for information pertaining to the Phase One study area and summarizes the search results. A total of 63 databases were searched. EcoLog ERIS located 158 records for properties within 250 m of the Site, however no records were identified for the Site specifically. The results of the EcoLog ERIS report are summarized in Table 3-2 below. The full report is included in Appendix B.

Table 3-2: Summary of Ecolog ERIS Findings

| 2010 0 2. Gainmary or Loolog Lixto 1 mainigo | | | |
|--|--------------------------------|--|--|
| Location | Approximate Distance from Site | Details | |
| 550 Cambridge Street S | East adjacent property to Site | Certificate of Approval issued to Carleton Condominium No. 472. for air | |
| 7 Frederick Place | 70 m south- southeast | TSSA pipeline incident documenting heating fuel pipeline damage. No other information indicated. | |
| 280 Carling Avenue | 71 m east | ERIS Historical Database search | |
| 385 Bell Street | 80 m North | Scott's Manufacturing Directory identified Scaffold-fast Inc. Certificate of Approval issued to Canci Homes Corporation Inc. for municipal and private sewage works | |
| 265 Carling Avenue | 83 m east | Ontario Reg. 347 Waste Generators Summary identified Associated Endodontists, | |
| 401 Lebreton Street | 103 west northwest | Ontario Reg. 347 Waste Generators Summary identified Government of Canada, Energy, Mines and Resources (out of business) and Quantum Murray LP Inventory of PCB Storage Sites identified Energy, Mines and Resources Pesticides Register identified Terrapro Corporation | |
| 557 Cambridge Street | 107 m east - southeast | Ontario Reg. 347 Waste Generators Summary identified Black & MacDonald Limited for oil skimming and sludges | |
| 265 Carling Avenue | 108 east - northeast | ERIS Historical Database search Ontario Reg. 347 Waste Generators Summary identified Tago Corporation for PCBs Scott's Manufacturing Directory identified Nortak Sofaeware Ltd., A faculties Medicine of Cda, Beyond 20/20 Inc., and, Cdn Post – N Education Regist. | |

| Location | Approximate Distance | Details | |
|---------------------------|---------------------------|---|--|
| Location | from Site | Details | |
| | 137 east - northeast | ERIS Historical Database search | |
| 326 Powell Street | 108 m north- northeast | Ontario Spills identified a pole transformer spill with 53 L of fluid spilled to ground | |
| 515 Cambridge | 113 north - northeast | ERIS Historical Database search Ontario Reg. 347 Waste Generators Summary identified Borden High School with waste oils and lubricants | |
| Street | 161 m north- northeast | Ontario Reg. 347 Waste Generators Summary identified Goodex Equipment Rental | |
| 774 Bronson Avenue | 123 east- southeast | ERIS Historical Database search | |
| 360 Lebreton Street | 129 m west | Ontario Reg. 347 Waste Generators Summary identified Dept. of National Defence with aliphatic solvents, petroleum distillates, acid wastes, heavy metals, paints, pigments and coating residues, waste oils and lubricants | |
| 770 Bronson Avenue | 137 east | ERIS Historical Database search List of TSAA Expired Facilities identified Emilo Lindia Enterprises Ltd. Private and Retail Fuel Storage Tanks identified Emilo Lindia Enterprises Ltd. | |
| 786 Bronson Avenue | 156 east southeast | ERIS Historical Database search | |
| 345 Lebreton Street | 161 North- northeast | ERIS Historical Database search | |
| 315 Powell Avenue | 169 m north | Ontario Spills identified a gasoline spill with an unknown volume into City Sewer | |
| 482 Cambridge Street S | 175 north- northwest | ERIS Historical Database search | |
| 247 Glebe Avenue | East-northeast | Ontario Reg. 347 Waste Generators Summary identified Hydro Ottawa Ltd and Ottawa Hydro | |
| 794 Bronson Avenue | 184 m east - southeast | Scott's Manufacturing Directory identified K&R Dental Laboratories and Shaw Laboratories | |
| 615 Booth Street | 187 m west - northwest | Certificate of Approval issued to Public Works & Govt Services Canada for air Ontario Reg. 347 Waste Generators Summary identified Brookfield Global Integrated Solutions, SNC Lavalin, Gvt of Canada-Public Works, Gvt of CanSee&Use, Public Works Canada, Gvt. Of Can-Supply and Services, Stantec Consulting Ltd., Mapping and Charting Establishment, National Defence, Energy, Mines and Resources, Brookfield Johnson Controls, Gvt. Of Can-Natural Resources, and Health and Welfare Canada for aliphatic solvents, petroleum distillates, acid wastes, heavy metals, paints, pigments and coating residues, waste oils and lubricants National PCB Inventory identified Energy Mines and Resources Scott's Manufacturing Directory identified Canadian Hydro Graphic Services Ontario Spills identified National Research Council of Canada, SNC Lavalin, and Natural Resources Mechanical Room for refrigerant gas and Freon | |

| Location | Approximate Distance from Site | Details | |
|-----------------------|--------------------------------|--|--|
| 601 Booth Street | 187 west- northwest | Ontario Reg. 347 Waste Generators Summary identified Government of Canada, Energy, Mines and Resources, Brookfield Johnson Controls, Gvt. Of Can-Natural Resources, Brookfield Global Integrated Solutions, and Health and Welfare Canada for aliphatic solvents, petroleum distillates, acid wastes, heavy metals, paints, pigments and coating residues, waste oils and lubricants Ontario Spills identified an 8 L ethylene glycol spill for SNC Lavalin. Confirmed soil and water impact. | |
| 680 Bronson Avenue | 227 m north- northeast | Ontario Spills identified a natural gas leak by Enbridge Gas Distribution | |
| 812 Bronson Avenue | 237 m east- southeast | Ontario Spills identified 50 L of furnace fuel leak by First Fuel indicating possible soil contamination | |
| 272 Powell Street | 241 northeast | Ontario Spills identified Hydro Ottawa 14 L of PCB oil to ground, potential land and water impacts | |
| | 196 m northeast | • borehole | |
| | 203 m north- northeast | • borehole | |
| | 233 m north | borehole | |
| Unlisted locations | 134 m west- southwest | • borehole | |
| | 71 m north - northwest | Federal Contaminated Sites Registry identified an unknown contaminated site. ROC obtained. PHCs and PAHs in soil and groundwater near mechanical room | |
| | 189 m west - northwest | Federal Contaminated Sites Registry identified an unknown contaminated site. Estimated 6295 m³ of PAH and metal impacted soil present | |

A former gasoline service station (Emilio Lindia Enterprises Ltd.) located 137 m east of the Site at 770 Bronson Avenue may be a potential off-site environmental risk. Two PCB spills identified at 326 Powell Street (approximately 109 m north – northeast of the Site) may be a potential off-site environmental risk. The federal contaminated sites registry sites located 71 m and 189 m north – northwest from the Site may also present an environmental risk.

3.2.1 City Directory Reviews

3.2.1.1 Past Uses of the Phase One Property

An ERIS City Directory Information Source report was obtained and reviewed by DST. Directories were viewed from 1928 to 1999. Listings found in the City Directory are summarized in Table 3-3. It should be noted that some years had no listings for nearby addresses and present gaps in the listing history or were not occupied.

Table 3-3: Summary of The City of Ottawa Directory Records

| Location | Date Ranges | Listing |
|--------------------|-------------------|---------------------|
| 294 Carling Avenue | From 1954 to 1999 | Unknown Residential |
| 296 Carling Avenue | From 1954 to 1999 | Unknown Residential |

| 299 Carling Avenue | From 1979 to 1994 | Energy, Mines & Resources | |
|----------------------------|-------------------|--|--|
| 540 Cambridge Street South | From 1994 to 1999 | Carleton Condominium Corp | |
| | 1979 | Ottawa Carleton Regional Roads Dept Surveys Br. | |
| 393 Bell Street | 1999 | Shardon Building Corp, | |
| | | Unknown Residential | |
| | 1989 to1959 | Mc Rostie Genest Middlemiss & | |
| | | Associates engs | |
| | 1974, 1969 | Bernier & Grand'maitre Assoc | |
| | | consulting eng | |
| | 1959 | National Capital Commission | |
| | 1954, 1938 | Unknown Residential | |

A review of the city directories revealed no indicators of potential off-site environmental risk to the Site.

3.3 Physical Setting Sources

Aerial photographs, as well as soil, bedrock geology, and topography maps were reviewed for information pertaining to the physical setting of the Phase One study area. Results of the review are presented in the following subsections.

3.3.1 Aerial Photographs

A review of available aerial photographs from the City of Ottawa's GeoOttawa Maps and the National Air Photo Library was conducted. Aerial photographs from the years 1928, 1938, 1946, 1950, 1958, 1965, 1976, 1991, 2011 and 2014 were reviewed. The information available from the reviewed photographs is summarized below (refer to Appendix D for copies of the aerial photographs):

1928 GeoOttawa

The Phase One Property is present at the northeast corner of Bell Street South and Carling Avenue. The Site appears to have some development with potentially two or three unidentifiable structures in the southwest cover. The rest of the Site appears vacant with possible surface disturbance. Carling Avenue is clearly visible traversing in a northeast-southwest direction, as is Bell Street South leading to Carling from the north. Several other streets are also evident with mixed vacant, residential and industrial properties within the Phase One Study Area. Immediately south of the Phase One property (south side of Carling Avenue) is potentially a lumber yard. This lumber yard extends west towards Dows Lake and east to Bronson Avenue. The west adjacent property (west of Bell Street) appears to potentially have had at least three buildings and a disturbed surface. The property further west appears to be another lumber yard or an extension of the south lumber yard. A series of either roads and/or rail spurs are present on this adjacent property. Further west is a residential neighbourhood. The adjacent property immediately north of the Phase One property has at least one

building with the rest of the site having vacant land with some surface disturbances. Further north is Maclean Street with several buildings and properties located on the north side. The east adjacent property is developed with several unidentifiable structures onsite. It also appears to be potentially fenced. Further east is Cambridge street and possibly mixed residential, intuitional and/or industrial.

1938 National Air Photo Library

The Phase One Property appears to have at least one retanglar building adjacent the east property boundary. The east adjacent property has one building adjacent Cambridge Street. Further east, at the SW corner of Bronson and Carling Avenues appears to be a gas station. South of Carling Avenue, the lumber yard has been redeveloped with roads and at least on residential building. Southwest of the site (south of Caring Avenue) is a park area and Dows Lake. The west adjacent property located west of Bell Street has at least one building predominantly along the property edge near Carling Avenue and Bell Street.

1946 National Air Photo Library

The quality of the aerial photograph is poor preventing the detailed review of the Phase One Property. The north and east properties appear unchanged. South of Carling Avenue, additional residential housing is now present. The west adjacent property located west of Bell Street has at least two buildings predominantly along the property edges near Carling Avenue, Bell Street and Lebreton Street.

1950 National Air Photo Library

The Phase One Property has at least one rectangular building situated on the east property boundary. South of Carling Avenue, the residential neighbourhood appears completely developed. The west adjacent property located west of Bell Street has at least three buildings along the property edges near Carling Avenue, Bell Street and Lebreton Street. The remaining properties appear unchanged.

1958 GeoOttawa Maps

The Phase One Property no longer has the rectangular building present. It now appears to be a paved parking lot with several vehicles parked along the edges. The eastern property boundary appears to have a building which overlaps with the Phase One property. The east adjacent property also has second building adjacent Cambridge Street and vehicle parking in the centre. The west adjacent property located west of Bell Street has at least five buildings predominantly along the property edges near Carling Avenue, Bell Street and Lebreton Street. Vehicle parking is present in the centre of the property and a disturbed surface area to the north with several vehicles is also present. Further west of Lebreton Street is a site currently under construction. Gas stations appear to be located on the NW and SW corners of Bronson and Carling Avenues. Properties to the north appear unchanged from the 1950 aerial photograph.

1965 GeoOttawa Maps

The Phase One property is unchanged since 1958. The adjacent properties to the north, east, south and immediately west also appear unchanged. The property west of Lebreton Street has been developed with several buildings and some vacant land. A building located just northwest of the site (west side of Bell Street) has also be constructed since 1958.

1976 GeoOttawa Maps

The Phase One property is unchanged since 1965 except for some landscaping present near the property boundaries. The adjacent properties to the north, south and immediately west also appear unchanged. Two properties located east of Cambridge Street have been redeveloped into multi-level buildings since 1965.

1991 GeoOttawa Maps

The Phase One property is unchanged since 1976. The adjacent properties to the north, south and immediately west also appear unchanged. The east adjacent property has been redeveloped into a multi-level building incorporating the entire site.

2011 GeoOttawa Maps

The Phase One property is unchanged since 1991. The west adjacent property located on the west side of Bell Street no longer has the buildings present, however foundation imprints of the historical buildings can be observed near Lebreton Street. The adjacent properties to the north, east and south appear unchanged since 1991.

2014 GeoOttawa Maps

The Phase One property is unchanged since 2011. The adjacent properties to the north, east south and west also appear unchanged since 2011.

A review of the aerial photographs did not reveal any indicators of potential environmental risk with respect to the Phase One property. The south adjacent property identified as a possible lumber yard in 1928 may have had potentially contaminating activities (PCAs) that could have impacted the site through contaminant migration. In addition, the two gas service stations identified on the west corners of Carling and Bronson Avenues also pose a potential environmental risk to the Site.

3.3.2 Topography, Hydrology, Geology

The topographical map of Ottawa (Map 31G/5, produced by the Surveys and Mapping Branch of the Department of Energy, Mines and Resources, 1987) was reviewed. The map shows the ground surface elevation for the Phase One property at approximately 74 metres above mean sea level (m.a.s.l.). The on-site topography slopes gently towards the southwest, with the highest elevation on Site observed in the northeast corner.

Surficial geology maps published by the Ontario Geological Survey and the Ontario Division of Mines were examined to evaluate the characteristics of the overburden at the Phase One property and surroundings. The surficial geology at the Site consists predominantly of glaciomarine

deposits described as silt and clay with sand and gravel. (Ref.: Surficial Geology Map 1506A, Ottawa, Ontario, Geological Survey of Canada, 1982).

The bedrock geology at the Site consists of interbedded limestone and shale of the Middle Ordovician Bobcaygeon Group. (Ref.: Map 1508A5, "Generalized Bedrock Geology", Geological Services Canada (GSC) 1976).

3.3.3 Fill Material

Based on a Phase Two ESA Report prepared by Intera Consultants Inc. (November 1997) fill material identified at the Site, generally consists of clayey sand, sand and gravelly sand ranging in thickness from surface to 0.61 metres deep. The borehole log for BH24 indicated fill material to a maximum depth of 0.84 m deep.

3.3.4 Water Bodies and Areas of Natural Significance

Dows Lake is located approximately 355 m southwest of the Site. Dows Lake is connected the Rideau canal system which is located approximately 890 m south of the Site. The Rideau River is located approximately 3.6 km south of the Site.

Based upon a review of the online Natural Heritage Areas from the Ministry of Natural Resources and Forestry (MNRF), there are no environmentally sensitive sites, and Areas of Natural and Scientific Interest associated with the Phase One Study area. An information request was submitted to the MNRF with respect to species at risk; a response was not received at the time of issuance of this report.

3.3.5 Well Records

No water well records were identified on the MOECC's water well database for the Phase One property. Fifteen water well records were found for other properties within 250 m of the Phase One Property. All wells were installed in either 2008, 2010 and/or 2012. Twelve water well records were identified as monitoring well and/or test hole locations. Three well records were identified as well abandonments.

Of the fifteen water well records identified, a Master Cluster Record (Well Tag No.: A081100) of eleven monitoring wells were registered for 601 & 615 Booth Street and were drilled in 2008. A description of the subsurface materials indicated fill from surface to 0.60 metres followed by landfill debris and organics from 0.6 to 4.2 metres deep then followed by grey limestone to a maximum depth of 8.8 metres deep. The location of these wells is noted as being on the south side of the property identified as a former lumber yard in 1928 (occupying land between Lebreton and Booth Streets).

3.4 Site Operating Records

No site operating records were provided to DST for review.

4. Interviews

4.1 General

DST conducted an interview on November 18, 2016, with Ms. Krista Durie, the development manager for the Canada Lands Company (CLC) Limited. Ms. Durie was selected to be interviewed as she is familiar with the Site and has been associated with the property since 2013. Ms. Durie was interviewed via email correspondence.

Ms. Durie provided DST with the following information:

- ➤ The Site is currently a parking facility and was acquired by CLC in 2014;
- ➤ The Site had a Phase II ESA conducted by Intra Consultants in 1997 which identified metal impacted fill material onsite; and
- ➤ To her knowledge, Ms. Durie was unaware of any environmental spill, incidents or issues at the Site and/ or surrounding properties.

5. Site Reconnaissance

5.1 General Requirements

The findings documented in this section are based on observations made by Salim Eid and Ginger Rogers (a Qualified Person in Ontario as per O. Reg. 153/04, as amended). The Site visit took place on November 27, 2016, and lasted for approximately 1.5 hours. Conditions at the time of the Site reconnaissance were sunny with a temperature of approximately 12°C.

Photographs from the Site visit are included in Appendix E.

5.2 Specific Observations at the Phase One Property

The Site is currently a parking lot with no standing structures. Site topography gently slopes southwest. Some landscaped trees are currently located on the northern property boundary and landscaped grasses and shrubs exists along the south and west property boundaries. A retaining wall is present on the east property boundary. The surface of the parking lot has been paved with asphalt. The asphalt was identified as being worn with patches of surface soil exposed. No signs of surficial staining were identified. Descriptions of the Site buildings and other observations at the Phase One property are provided in the sub-sections below.

5.2.1 Observations at the Phase One Property

No buildings were observed. The site surface has been paved with asphalt.

5.2.2 **Description of Below-Ground Structures**

No below-ground structures were observed however, two monitoring wells were identified.

5.2.3 **Details of Tanks**

No ASTs and/or USTs were identified.

5.2.4 Potable and Non-Potable Water Sources

No potable or non-potable water sources were identified.

5.2.5 Underground Utilities and Service Corridors

Indicators of underground and aboveground utilities were observed at the property's west and south boundaries on public streets. Utilities identified included storm sewer catch basins, polemounted lighting fixtures, and telephone cables.

5.2.6 Features of Structures and Buildings

5.2.6.1 Entry and Exit Points

No on-site structures of buildings were identified.

5.2.6.2 **Heating Systems**

No on-site heating systems were identified.

5.2.6.3 Cooling Systems

No on-site cooling systems were identified.

5.2.6.4 **Drains, Pits and Sumps**

No on-site drains, pits and/or sumps were identified.

5.2.6.5 Unidentified Substances

No unidentifiable substances were observed at the Site.

5.2.6.6 Stains or Corrosion

No on-site corrosion and/or stains were identified. Asphalt surface was noted as being worn with several cracks and broken patches throughout the site.

5.2.7 **Wells**

Water wells were not identified on-site. At least two surface-grade monitoring wells were identified.

5.2.8 **Sewage Works**

No on-site sewage infrastructure was identified.

5.2.9 Ground Surface

Approximately three quarters of the Phase One Property is paved while remaining quarter is grassed and slightly vegetated with some trees and shrubs.

5.2.10 Railway Lines or Spurs

No on-site railway lines or spurs were identified.

5.2.11 Stained Soil and Floor Surfaces

No on-site soil staining was observed.

5.2.12 Stressed Vegetation

No on-site stressed vegetation was observed.

5.2.13 Fill and Debris

No fill or debris was observed.

5.2.14 Potentially Contaminating Activity

No potentially contaminating activities were identified during the Site visit.

5.2.15 Enhanced Investigation Property

The property is not considered an enhanced investigation property, as per O. Reg. 153/04 (as amended).

5.2.15.1 Operations at Phase One Property

The Site is currently used as a surface-grade parking lot.

5.2.15.2 Hazardous Materials

No hazardous materials were identified.

5.2.15.3 Products Manufactured at Phase One Property

No manufacturing processes currently take place at the Phase One property.

5.2.15.4 By-Products and Wastes

No waste or by-products are generated at the Site.

5.2.15.5 Raw Materials Handling and Storage

No raw materials are currently handled or stored at the Site.

5.2.15.6 Drums, Totes and Bins

No drums, totes and/or bins were identified.

5.2.15.7 Oil/Water Separators

No oil/water separators were observed.

5.2.15.8 Vehicle and Equipment Maintenance

No vehicle and/or equipment maintenance areas were identified.

5.2.15.9 Historic Spills

There have been no reported spills documented for the Site. Historical spills have been identified for other properties within the Phase One ESA Study Area. Refer to Section 3.2 and Table 3.2 for a list of all historic spills, as reported in historical reports and recorded in the Ontario Spill database.

5.2.15.10 Liquid Discharge Points

No liquid discharge points were identified.

5.2.15.11 Processing and Manufacturing

No processing or manufacturing activities occur at the Site.

5.2.15.12 **Hydraulic Lift Equipment**

No hydraulic lift equipment was identified.

5.3 Adjacent Properties

Adjacent properties within a 250 m radius from the Site were observed from publicly accessible places. Prior to the property development in 1958, the land-use is not known but may have been industrial as identified in the 1958 aerial photograph.

The Phase One property is bounded by the following:

- North Adjacent to the northern Site boundary is residential land use with a mix of single story and multi-tenant residential complexes extending to Powell Street.
- East Adjacent the eastern property boundary is a multi-tenant residential complex followed by a mix of residential and commercial properties extending to Bronson Avenue.
- South Adjacent to the southern Site boundary is Carling Avenue, followed by multiple single story residences which extends west to Dow's Lake Road and east to Bronson Avenue. Dows Lake and Park are located southwest of the Site.
- West Adjacent to the western Site boundary Bell Street followed by a parking lot owned and operated by Public Works Government Services Canada. Further west is Lebreton Street and institutional properties.

Potentially contaminating activities (PCAs) and areas of environmental concern (APECs) identified at and/or near the Site based on the records review, interview, and Site reconnaissance are described in Section 6.

6. Review and Evaluation of Information

6.1 Current and Past Uses

The current and past uses of the phase one property are summarized in Table 6-1.

Table 6-1: Current and Past Uses of Phase One Property

| Year | Property Use | |
|--|--------------|--|
| Prior to 1958 Unknown, Potentially Industria | | |
| 1958 – present | Parking Lot | |

6.2 Potentially Contaminating Activities Within the Phase One Study Area

Table 6-2 below summarizes the PCAs identified within the Phase One Study Area based on the records review, interview and Site reconnaissance. The PCAs are described in accordance with O. Reg. 153/04 (as amended), Schedule D, Table 2. Refer to Figure 3 in Appendix A.

Table 6-2: Potential Contaminating Activities (PCAs)

| Potentially Contaminating Activity No. | Potentially Contaminating Activity | Details | Location of PCA |
|--|--|--|--|
| PCA 1 | Unknown Historical Use prior to 1958. Possible Industrial. | HLUI Report documented a possible Quarry and an unnamed waste disposal site with unknown addresses. A 1958 aerial photo showed the Site as having ground disturbances and/or structures which could be part of Fraserfield Lumber Yard. Intera Consulting 1997 Phase II ESA Report documented metal concentrations exceeding selected guidelines | On Site – entire site |
| PCA 2 | Former Lumber Yard, Former Quarry, Former UST location | HLUI Report documented a possible quarry and a former UST at the property immediately west of the Site. The 1915 FIP showed a surface pond. The 1915 FIP and 1958 aerial photo showed the area as potentially have | Off-Site – immediately west of the Site which includes the entire property west of Bell Street |

| | | been part of Fraserfield Lumber Yard | |
|--------|-------------------------|---------------------------------------|---|
| | | The 1901 FIP, 1915 FIP | |
| | | · · | |
| | | and 1958 aerial photo | |
| DO 4 0 | | documented the area as | Off-Site - immediately |
| PCA 3 | Lumber Yard | part of Fraserfield Lumber | south of Site |
| | | Yard (HLUI documented | |
| | | area as J.R. Booth's | |
| | | Lumber Yard). | |
| | | HLUI Report and the 1958 | |
| | | aerial photo documented | |
| | Gasoline and Associated | the property located at the | Off Site – approximately |
| PCA 4 | Products Storage in | corner of Bronson Avenue | |
| | Fixed Tanks | and Carling Avenue as a | |
| | | retail fuel outlet from 1948 | |
| | | to 1980. | |
| | | HLUI Report, the 1958 | |
| | | aerial photo and 1965 FIP | |
| | Gasoline and Associated | documented the property | Off Site – approximately |
| PCA 5 | Products Storage in | located at the corner of | 140 m east - southeast |
| | Fixed Tanks | Bronson and Carling | of the site |
| | | Avenues a retail fuel outlet | |
| | | from 1956 to 2005. | |
| | | The 1956 FIP and HLUI | |
| | | report documented the | |
| | | property located at Carling | |
| | | Avenue and Lebreton | |
| | Gasoline and Associated | Street as a retail fuel outlet | Off Cita annualimentalis |
| PCA 6 | Products Storage in | from 1941 to 1956. Water | Off Site – approximately 100 m west of the site |
| | Fixed Tanks | well records identified | 100 m west of the site |
| | | waste material on log | |
| | | descriptions for monitoring | |
| | | wells drilled on this | |
| | | property. | |
| | DCD on ill from Dala | ERIS report documented a | Off Cito annuaring to |
| PCA 7 | PCB spill from Pole | PCB spill at the property | Off-Site – approximately |
| | Transformer | located 326 Powell Street. | 110 m North of the site |
| | | The 1956 FIP and HLUI | |
| | Openition and A | report documented the | |
| DO 4 6 | Gasoline and Associated | property located at Carling | Off Site – approximately |
| PCA 8 | Products Storage in | Avenue and Booth Street | 125 m west of the site |
| | Fixed Tanks | as a retail fuel outlet from | |
| | | 1941 to 1956. | |
| | | The HLUI report | |
| | | documented a former | Off Site – approximately |
| PCA 9 | Former Landfill | landfill (Ur-21) at the | 120 m southwest of the |
| | | current location of | site |
| | | Commissioner Park | |
| | ı | | <u> </u> |

PCA 1:

As noted in Section 3.1.11, metal concentrations exceeding the CCME and/or MOE guidelines were documented in the 1997 Intera Consulting Phase II ESA report. The report indicated approximately 850 m³ of metal impacted soil would require remediation. The HLUI report provided by the City indicated that the Site may have been a former waste disposal facility. The address and location of this facility is unknown. The 1928 aerial photograph showed the site as either having ground disturbance(s) and/or on-Site structures. The quality of the aerial photo was poor preventing a more detailed description. Because of documented metal concentrations in the fill material and data gaps of potential contaminants of concern (PCOCs) that may be associated with these former land-uses, the Site potentially has environmental liabilities associated with it.

PCAs 2 and 3:

The former presence of an unknown quarry and a lumber yard on the adjacent property to the west potentially poses an environmental concern to the Site. Similarly, the same lumber yard identified for the west adjacent property is the same for the south adjacent properties. The HLUI report identified one UST at the west adjacent property (PCA 2). Former operations at the former quarry, the former lumber yard and the former UST location may have the potential to impact the Site.

PCAs 4, 5, 6 and 8:

Historical reports have indicated that the possible direction of groundwater flow is southwest towards Dows Lake. The former presence of two gas service stations at the west corners of Carling and Bronson Avenues (east of the Site) poses an environmental concern at the Site. The former gas service stations located west of the Site are down-gradient and do not pose an environmental concern to the Site.

PCA 7

The ERIS reports indicated a spill database records of a poll transformer spill with approximately 53 litres of transformer oil being spilled to the ground in May 1988. No environmental impact was noted. Considering the direction of groundwater flow is towards the site from the northeast, this former spill does have the potential to be an environmental risk to the Site

PCA8

The HLUI reported documented a former landfill (Ur-21) have once operated at the current location of Commissioner Park. Commissioner Park is located approximately 120 metres southwest of the site. Considering the direction of groundwater flow is towards the site from the northeast, this former landfill does not have the potential to be an environmental risk to the Site

6.3 Areas of Potential Environmental Concern on the Phase One Property

The PCAS as described in Section 6.2 contribute to one area of potential environmental concern (APEC) which includes the entire Site. Detailed information of the APEC is summarized in Table 6-3. The APEC is also identified on Figure 4 in Appendix A.

Table 6.3: Areas of Potential Environmental Concern (APEC)

| APEC No. | Potential Source of Contamination | Contaminants of Potential Concern (COPCs) |
|----------|--|--|
| APEC 1 | On-site Sources: documented on-site metal concentrations exceeding MOE guidelines, possible disposal facility, unknown land-usage prior to 1958. | BTEX, PHCs F1 - F4, PAHs, VOCs, Phenols, pH, metals |
| | Off-site sources: Possible waste disposal facility, former near-by quarry, former near-by lumber yard, nearby former retail fuel stations and USTs, near by PCB spill. | |

Notes:

BTEX - Benzene, Toluene, Ethylbenzene, Xylenes

PHCs F1-F4 – Petroleum Hydrocarbons Fractions (F1 - F4)

VOCs - Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

6.4 Phase One Conceptual Site Model

Based on the historical review and site reconnaissance, DST concludes that there is a potential for soil and/or groundwater contamination at the Site. Information presented in this report that contributes to the development of a Conceptual Site Model (CSM) is presented as Figures 3 and 4.

The Phase One CSM is summarized as follows:

- ➤ City underground utilities such as storm, sewer and water were identified in the southwest corner of the site, adjacent the corner of Bell Street and Carling Avenue:
- ➤ No water wells were identified within the Phase One Study area however several observation/ monitoring wells were identified at the Site and surrounding properties;
- > Surrounding properties are a mix of residential, institutional, parkland and commercial;
- > Road Names are summarized on Figures 2 to 4;
- The site is a parking lot with no on-Site structures;
- ➤ The site is approximately 74 masl and slopes slightly to the south southwest towards Dows Lake (approximately 355 m). The surrounding lands also slope south southwest;
- Surficial geology of the Site (1997 Phase II ESA Report by Intera Consultants Ltd) indicate that approximate 0.6 m of clayey sandy and gravelly fill overlies limestone bedrock;
- ➤ Groundwater elevations documented for the site was approximately 0.8 m deep with an assumed groundwater flow direction to the southwest;
- At least 8 PCAs were identified which has led to the entire Site being considered as an APEC (APEC 1).

Information considered for the development of this CSM was gathered from numerous sources (i.e., aerial photographs, city directories, environmental database searches, physical setting sources, historical reports, interviews and a site reconnaissance), which reduces the potential for not identifying a former property use and/or PCA.

7. Conclusions

7.1 Requirement for Phase Two ESA

A Phase Two ESA to assess the soil and groundwater conditions at the site is recommended and is also required for a RSC.

7.2 Signature

DST confirms that the carrying out of the Phase One ESA has been supervised and approved by a Qualified Person, as defined by O. Reg. 153/04 (as amended), and further confirms the findings and conclusions of this report. Assessor qualifications are presented in Appendix F.

We trust that the above meets your present requirements; should you have any questions or concerns regarding this report, please feel free to contact the undersigned at your convenience.

Sincerely,

For DST CONSULTING ENGINEERS INC.,

Junger Roger

Ginger Rogers, P.Geo., QP Senior Project Manager

Eric Domingue, P.Eng., M.A.Sc., QP

Regional Manager, Technical Services Group

8. References

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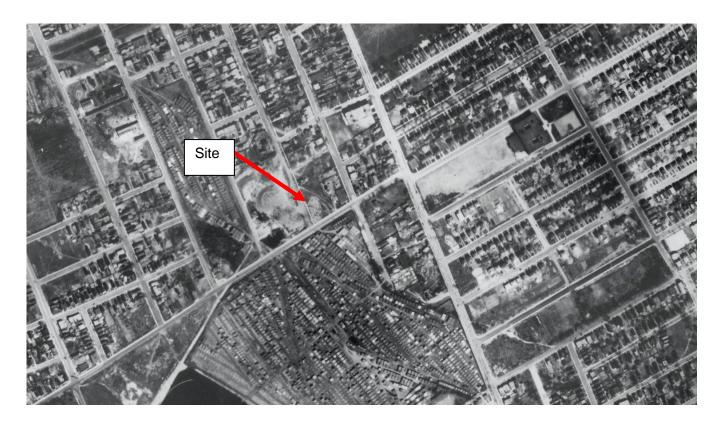
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APPENDIX A

Figures



geoOttawa Aerial - 1928



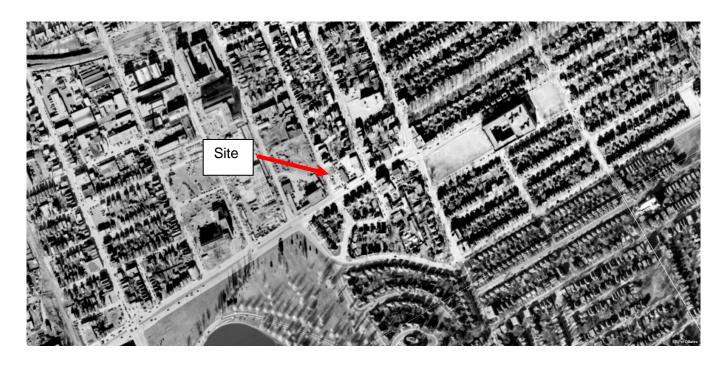
National Air Photo - 1938



National Air Photo - 1946



National Air Photo - 1950



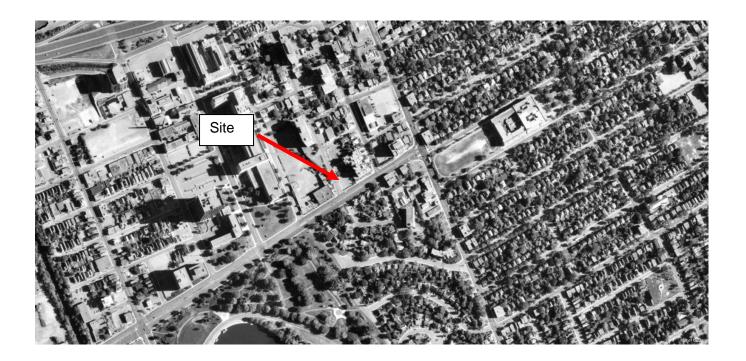
geoOttawa Aerial - 1958



geoOttawa Aerial - 1965



GeoOttawa Aerial - 1976



geoOttawa Aerial - 1991



geoOttawa Aerial - 2011



geoOttawa Aerial - 2014

APPENDIX E

Site Photographs



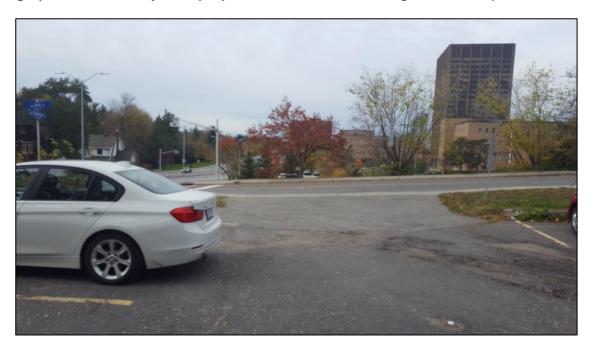
Photograph 1: View of south side of Site, facing south (October 27, 2016)



Photograph 2: View of Carling Avenue from south side of Site, facing southeast (October 27, 2016)



Photograph 3: View of adjacent properties to the south, facing southwest (October 27, 2016)



Photograph 4: View of Site entrance and west adjacent property, facing west (October 27, 2016)



Photograph 5: View of Site looking northwest towards Bell Street (October 27, 2016)



Photograph 6: View of north side of Site (October 27, 2016)



Photograph 7: View of northeast corner of Site (October 27, 2016)



Photograph 8: View of adjacent property to the east, view northeast (October 27, 2016)



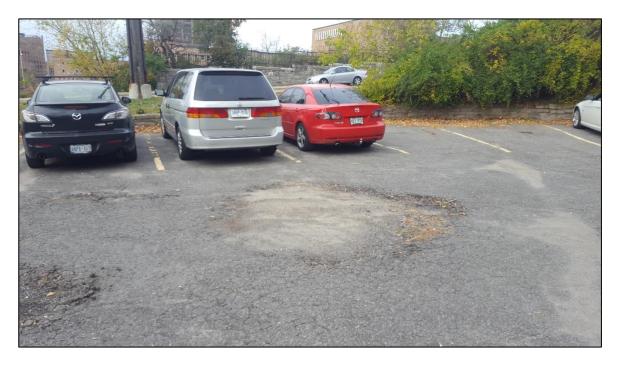
Photograph 9: Adjacent property to the east of Site (October 27, 2016)



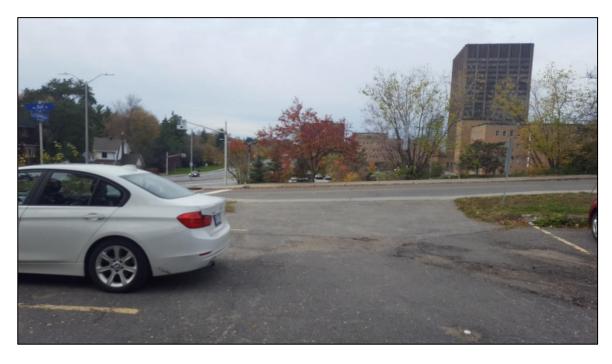
Photograph 10: View of retaining wall at east property boundary (October 27, 2016)



Photograph 12: View of diesel generator locate on east adjacent property (October 27, 2016).



Photograph 13: Photo of worn and damaged asphalt (October 27, 2016).



Photograph 14: Photo of damaged asphalt near parking lot entrance (October 27, 2016).

APPENDIX F

Qualifications of Assessor(s)

Qualifications of Assessors

Ginger Rogers, P.Geo., is a Senior Project Manager and qualified professional with over 19 years of geological, environmental and project management experience. She has managed numerous large-scale, high budget, highly complex projects involving site conceptual modelling, geological mapping, hydrogeological assessments, environmental site assessments, contaminated site remediation, environmental liability assessments, environmental audits, facility decommissioning and risk assessment/management, for industrial and commercial clients as well as major petroleum operators, both downstream and upstream. She has been involved in various projects throughout Canada. She has managed teams of engineers, geoscientists and other professionals in environmental consulting industry.

Eric Domingue, P.Eng., M.A.Sc., is a geological engineer with 19 years of experience in environmental field studies including all Phases for ESA's, risk assessment field work, site remediation, specifications and tender documents, site supervision, audit management/remediation environmental compliance audits and mining consulting services. He participated in the creation of guidelines for providing safe drinking water in areas of federal jurisdiction on behalf of the Interdepartmental Working Group on Drinking Water Health Canada, and authored the Drinking Water Guidelines and Implementation Framework for Canadian Diplomatic Missions on behalf of Foreign Affairs Canada. He has been involved in various projects in Canada and abroad. He has managed teams of engineers and professionals in environmental, geotechnical, civil and structural engineering.

APPENDIX G

Limitations of Report

Limitations of Report

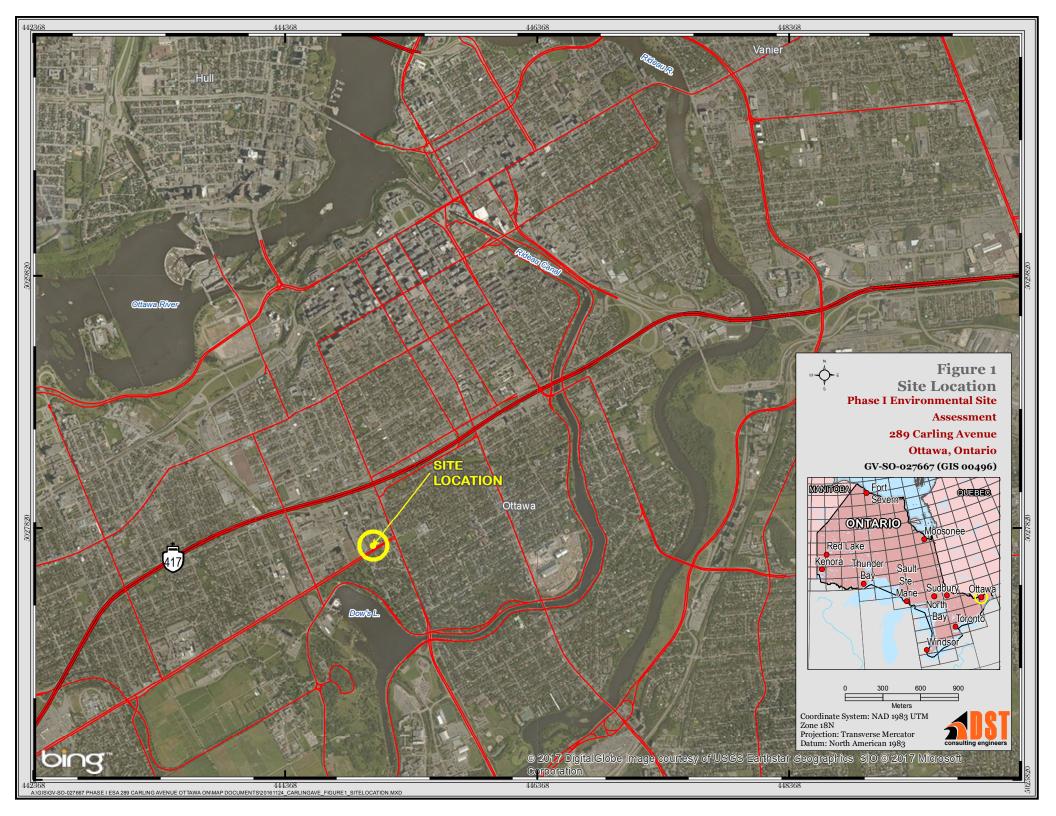
DST Consulting Engineers Inc. (DST) has prepared this report for the exclusive use of the City of Ottawa. The information, conclusions and recommendations given herein are specific for this project and the City of Ottawa only, for the scope of work described herein. DST will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of DST. DST accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions based on this report.

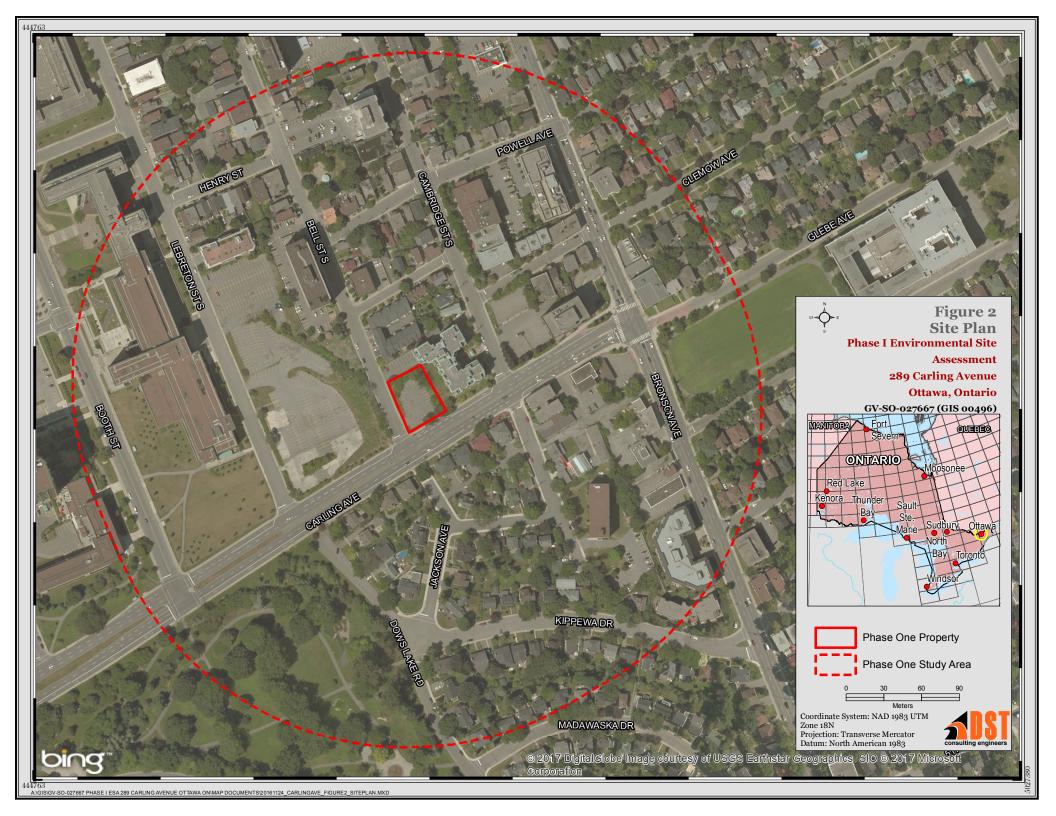
This report presents an overview of issues of potential environmental concern, reflecting DST's best judgment using information reasonably available at the time of DST's Site reconnaissance. The assessment was partly based on information from various sources of which the accuracy has not been verified, and because observations made during the Site reconnaissance may have been limited by existing conditions, this report does not guarantee that the subject property is free of hazardous or potentially hazardous material or conditions, or that latent or undiscovered conditions will not become evident in the future. DST has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to DST at the time of the Site reconnaissance and assessment.

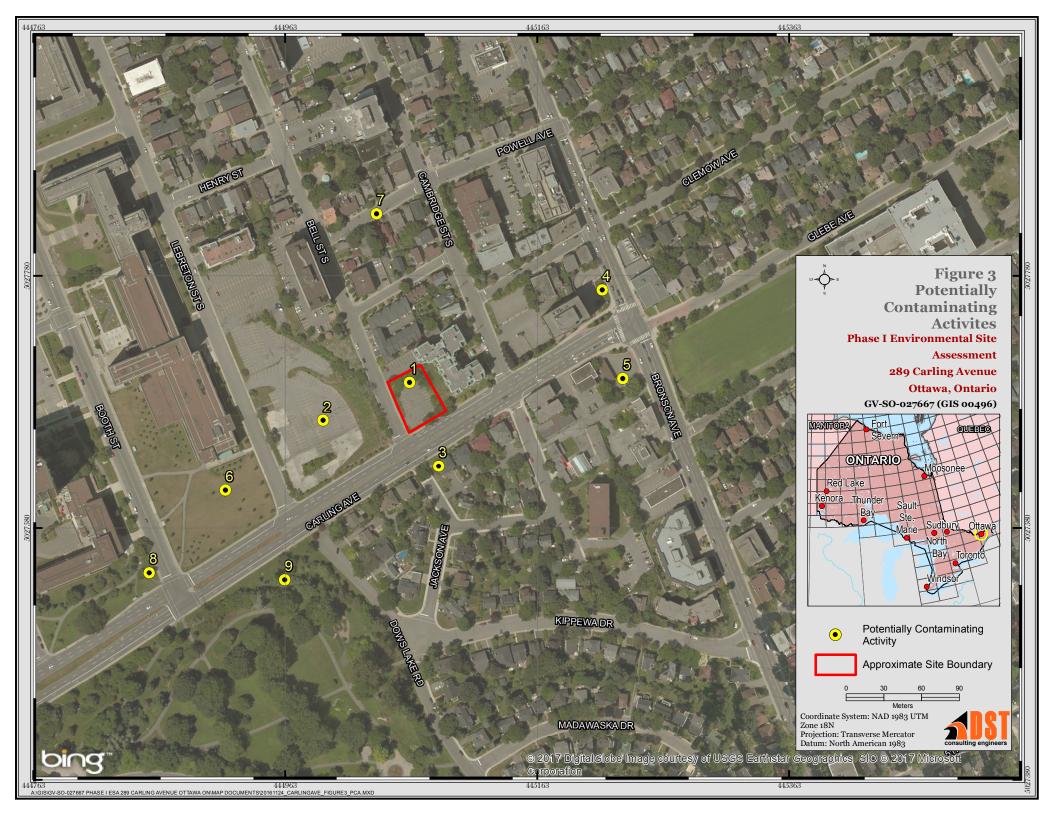
The conclusions regarding environmental conditions, which are presented in this report, are based on a scope of work authorized by the City of Ottawa. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground. This report therefore cannot warrant that all conditions on or off the subject property have been identified within this assessment.

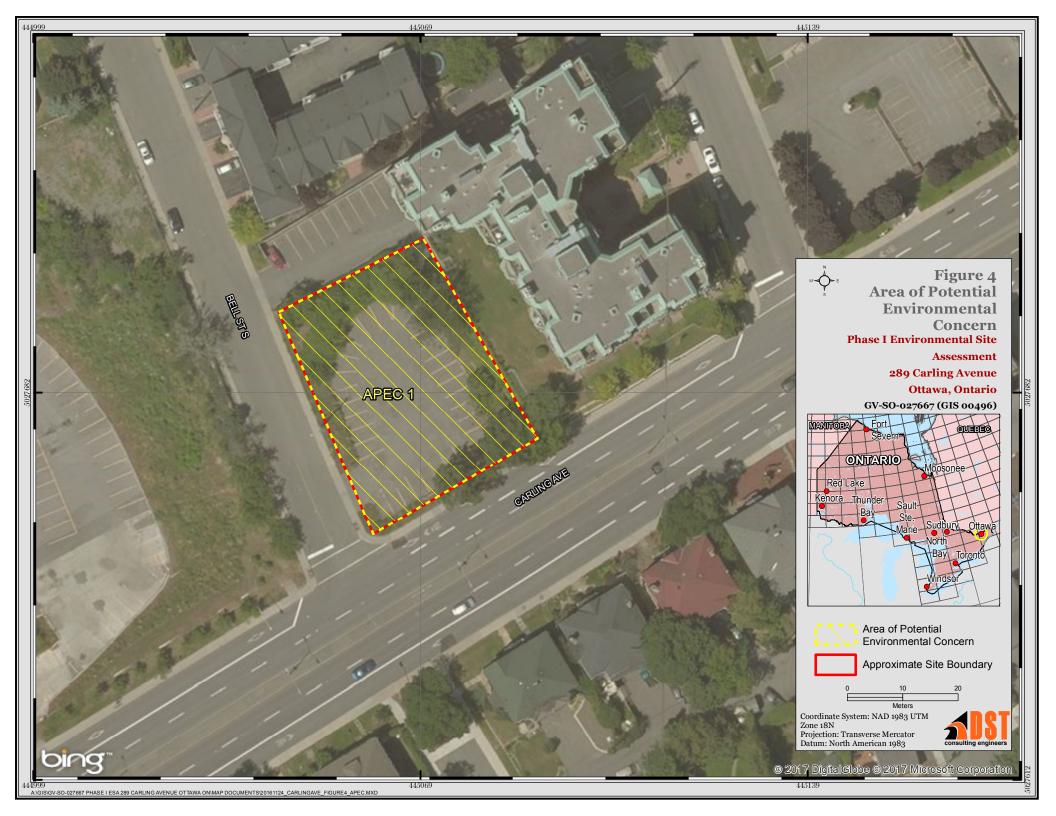
Since onsite and surrounding activities are beyond DST's control, and can change at any time after the completion of this assessment, the observations, findings, and opinions can be considered valid only as of the date provided on this report.

Conclusions and recommendations contained in this assessment were developed in accordance with currently accepted engineering standards and practices. Standards, guidelines and practices related to environmental investigations may change over time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.









APPENDIX B

Historical Documentation



DATABASE REPORT

Project Property: Phase I ESA - 289 Carling Avenue

289 Carling Ave

Ottawa ON K1S2E4

Project No: *GV-SO-027667*

Report Type: Quote - Custom-Build Your Own Report

Order No: 20161003159

Requested by: DST Consulting Engineers Inc.

Date Completed: November 9, 2016

Environmental Risk Information Services

A division of Glacier Media Inc.

P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: Phase I ESA - 289 Carling Avenue

289 Carling Ave Ottawa ON K1S2E4

Project No: GV-SO-027667

Order Information:

 Order No:
 20161003159

 Date Requested:
 October 3, 2016

Requested by: DST Consulting Engineers Inc.

Report Type: Quote - Custom-Build Your Own Report

Additional Products:

Executive Summary: Report Summary

| Database | Name | Searched | Project Property | Boundary to 0.25km | Total |
|----------|--|----------|---------------------|-----------------------|-------|
| AAGR | Abandoned Aggregate Inventory | Υ | 0 | 0 | 0 |
| AGR | Aggregate Inventory | Υ | 0 | 0 | 0 |
| AMIS | Abandoned Mine Information System | Υ | 0 | 0 | 0 |
| ANDR | Anderson's Waste Disposal Sites | Υ | 0 | 0 | 0 |
| AUWR | Automobile Wrecking & Supplies | Υ | 0 | 0 | 0 |
| BORE | Borehole | Υ | 0 | 4 | 4 |
| CA | Certificates of Approval | Y | 0 | 6 | 6 |
| CFOT | Commercial Fuel Oil Tanks | Y | 0 | 0 | 0 |
| CHEM | Chemical Register | Υ | 0 | 0 | 0 |
| COAL | Inventory of Coal Gasification Plants and Coal Tar Sites | Y | 0 | 0 | 0 |
| CONV | Compliance and Convictions | Υ | 0 | 0 | 0 |
| CPU | Certificates of Property Use | Y | 0 | 0 | 0 |
| DRL | Drill Hole Database | Y | 0 | 0 | 0 |
| EASR | Environmental Activity and Sector Registry | Υ | 0 | 0 | 0 |
| EBR | Environmental Registry | Y | 0 | 0 | 0 |
| ECA | Environmental Compliance Approval | Υ | 0 | 0 | 0 |
| EEM | Environmental Effects Monitoring | Y | 0 | 0 | 0 |
| EHS | ERIS Historical Searches | Y | 0 | 15 | 15 |
| EIIS | Environmental Issues Inventory System | Y | 0 | 0 | 0 |
| EMHE | Emergency Management Historical Event | Y | 0 | 0 | 0 |
| EXP | List of TSSA Expired Facilities | Y | 0 | 10 | 10 |
| FCON | Federal Convictions | Y | 0 | 0 | 0 |
| FCS | Contaminated Sites on Federal Land | Y | 0 | 2 | 2 |
| FOFT | Fisheries & Oceans Fuel Tanks | 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 | 87 | 87 |
| GHG | Greenhouse Gas Emissions from Large Facilities | Y | 0 | 0 | 0 |
| HINC | TSSA Historic Incidents | Y | 0 | 0 | 0 |
| IAFT | Indian & Northern Affairs Fuel Tanks | Y | 0 | 0 | 0 |
| INC | TSSA Incidents | Y | 0 | 0 | 0 |
| LIMO | Landfill Inventory Management Ontario | Y | 0 | 0 | 0 |
| MINE | Canadian Mine Locations | Y | 0 | 0 | 0 |
| MNR | Mineral Occurrences | Y | 0 | 0 | 0 |
| NATE | National Analysis of Trends in Emergencies System | Y | 0 | 0 | 0 |
| NCPL | (NATES) Non-Compliance Reports | Y | 0 | 0 | 0 |

| Database | Name | Searched | Project Property | Boundary to 0.25km | Total |
|----------|--|----------|---------------------|-----------------------|-------|
| 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 | Υ | 0 | 0 | 0 |
| NEBW | National Energy Board Wells | Y | 0 | 0 | 0 |
| NEES | National Environmental Emergencies System (NEES) | Y | 0 | 0 | 0 |
| NPCB | National PCB Inventory | Y | 0 | 1 | 1 |
| NPRI | National Pollutant Release Inventory | Y | 0 | 0 | 0 |
| OGW | 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 | 1 | 1 |
| ORD | Orders | Y | 0 | 0 | 0 |
| PAP | Canadian Pulp and Paper | Y | 0 | 0 | 0 |
| PCFT | Parks Canada Fuel Storage Tanks | Υ | 0 | 0 | 0 |
| PES | Pesticide Register | Y | 0 | 1 | 1 |
| PINC | TSSA Pipeline Incidents | Y | 0 | 1 | 1 |
| PRT | Private and Retail Fuel Storage Tanks | Υ | 0 | 2 | 2 |
| PTTW | Permit to Take Water | Υ | 0 | 0 | 0 |
| REC | Ontario Regulation 347 Waste Receivers Summary | Υ | 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 | Υ | 0 | 11 | 11 |
| SPL | Ontario Spills | Υ | 0 | 13 | 13 |
| SRDS | Wastewater Discharger Registration Database | Υ | 0 | 0 | 0 |
| TANK | Anderson's Storage Tanks | Υ | 0 | 0 | 0 |
| TCFT | Transport Canada Fuel Storage Tanks | Υ | 0 | 0 | 0 |
| VAR | TSSA Variances for Abandonment of Underground Storage Tanks | Υ | 0 | 0 | 0 |
| WDS | Waste Disposal Sites - MOE CA Inventory | Υ | 0 | 0 | 0 |
| WDSH | Waste Disposal Sites - MOE 1991 Historical Approval Inventory | Υ | 0 | 0 | 0 |
| WWIS | Water Well Information System | Υ | 0 | 4 | 4 |
| | | Total: | 0 | 158 | 158 |

Executive Summary: Site Report Summary - Project Property

MapDBCompany/Site NameAddressDir/Dist (m)Elev diffPageKey(m)Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|------|---|---|--------------|------------------|----------------|
| <u>1</u> ' | CA | Carleton Condominium Corporation No. 472 | 550 Cambridge St S Ottawa ON | ENE/43.3 | 4.42 | <u>26</u> |
| <u>2</u> | PINC | | 7 Frederick Place,Ottawa ON K1S 3G1 | SSE/69.8 | -1.93 | <u>26</u> |
| <u>3</u> | EHS | | 280 Carling Avenue Ottawa ON K1S 2E2 | E/71.2 | 3.80 | <u>27</u> |
| 4 | FCS | | Ottawa ON | WNW/71.4 | -4.11 | <u>27</u> |
| <u>5</u> | WWIS | | ON | ESE/78.0 | 1.18 | <u>27</u> |
| <u>6</u> | SCT | SCAFFOLD-FAST INC. | 385 BELL ST S OTTAWA ON K1S 4K3 | NNW/80.1 | 4.04 | <u>33</u> |
| 7 | CA | Canci Homes Corporation Inc. | 385 Bell Street Ottawa ON | NNW/80.4 | 4.02 | <u>33</u> |
| <u>8</u> | GEN | Associated Endodontists | 265 Carling Ave, unit 620 Ottawa ON K1S2E1 | ENE/83.2 | 3.79 | <u>34</u> |
| <u>8</u> | GEN | 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON | ENE/83.2 | 3.79 | <u>34</u> |
| <u>8</u> | GEN | Associated Endodontists | 265 Carling Ave, unit 620 Ottawa ON | ENE/83.2 | 3.79 | <u>34</u> |
| <u>8</u> | GEN | 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/83.2 | 3.79 | <u>35</u> |
| 9 | WWIS | | Ottawa ON | NE/95.7 | 4.13 | <u>35</u> |
| <u>10</u> | GEN | GVT. OF (OUT OF BUSINESS)ES & RESOURCES | 401 LEBRETON STREET OTTAWA ON K1A 0E8 | WSW/103.4 | -6.48 | <u>37</u> |
| <u>10</u> | GEN | GVT. OF CAN ENERGY MINES & RESOURCES | 401 LEBRETON STREET OTTAWA ON K1A 0E8 | WSW/103.4 | -6.48 | <u>38</u> |
| <u>10</u> | GEN | GVT. OF CAN ENERGY MINES & RES. | TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. | WSW/103.4 | -6.48 | <u>38</u> |
| <u>10</u> | GEN | GVT. OF CAN ENERGY MINES & RES.18-270 | OTTAWA ON K1A 0E8 TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8 | WSW/103.4 | -6.48 | <u>38</u> |
| <u>10</u> | GEN | Quantum Murray LP | 401 Lebreton Street Ottawa ON | WSW/103.4 | -6.48 | <u>39</u> |
| <u>10</u> | OPCB | ENERGY MINES AND RESOURCES | TERRAIN SCIENCES DIVISION 401 LIBRETON ST. OTTAWA ON | WSW/103.4 | -6.48 | <u>3</u> |
| <u>10</u> | PES | TERRAPRO CORPORATION | 401-A LEBRETON STREET SOUTH OTTAWA ON K1S 4L5 | WSW/103.4 | -6.48 | <u>3</u> |
| <u>11</u> | GEN | BLACK & MCDONALD LIMITED | 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4 | ESE/106.5 | 0.52 | <u>39</u> |
| <u>11</u> | GEN | BLACK & MCDONALD LIMITED 05-619 | 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4 | ESE/106.5 | 0.52 | <u>39</u> |
| <u>12</u> | EHS | | 265 Carling Avenue Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>40</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|-----|--|--|--------------|------------------|----------------|
| <u>12</u> | EHS | | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>40</u> |
| <u>12</u> | GEN | Taggart Corporation | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>40</u> |
| <u>12</u> | GEN | 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>40</u> |
| <u>12</u> | GEN | 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>41</u> |
| <u>12</u> | GEN | 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.55 | <u>41</u> |
| <u>12</u> | GEN | 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.55 | <u>41</u> |
| <u>12</u> | GEN | Taggart Corporation | 265 Carling Ave Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>41</u> |
| <u>12</u> | SCT | Nortak Software Ltd. | 265 Carling Ave Floor 7 Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>42</u> |
| <u>12</u> | SCT | Assn Faculties Medicine of Cda | 265 Carling Ave Suite 800 Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>42</u> |
| <u>12</u> | SCT | NORTAK SOFTWARE LTD | 265 CARLING AVE FLOOR 7 OTTAWA ON K1S 2E1 | ENE/108.3 | 3.56 | <u>42</u> |
| <u>12</u> | SCT | Beyond 20/20 Inc. | 265 Carling Ave Suite 500 Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>42</u> |
| <u>12</u> | SCT | Cdn Post-M.D. Education Regist | 265 Carling Ave Suite 800 Ottawa ON K1S 2E1 | ENE/108.3 | 3.56 | <u>42</u> |
| <u>13</u> | SPL | PUC | POLE TRANSFORMER OPPOSITE 326 POWELL STREET. OTTAWA CITY ON K1S 2A8 | NNW/108.8 | 3.99 | 43 |
| <u>14</u> | EHS | | 515 Cambridge Street Ottawa ON K1S 4H9 | NNE/113.1 | 2.62 | 43 |
| <u>14</u> | EHS | | 515 Cambridge St Ottawa ON K1S 4H9 | NNE/113.1 | 2.62 | <u>43</u> |
| <u>14</u> | GEN | OTTAWA-CARLETON DISTRICT SCHOOL BOARD | BORDEN HIGH SCHOOL 515 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4H9 | NNE/113.1 | 2.62 | <u>44</u> |
| <u>14</u> | GEN | OTTAWA BOARD OF EDUCATION 29-129 | BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9 | NNE/113.1 | 2.62 | <u>44</u> |
| <u>14</u> | GEN | OTTAWA BOARD OF EDUCATION | 515 CAMBRIDGE STREET SOUTH BORDEN HIGH SCHOOL OTTAWA ON K1S 4H9 | NNE/113.1 | 2.62 | <u>44</u> |
| <u>14</u> | GEN | OTTAWA BOARD OF EDUCATION | BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9 | NNE/113.1 | 2.62 | <u>45</u> |
| <u>15</u> | EHS | | 774 Bronson Ave Ottawa ON K1S4G4 | ESE/123.0 | 2.41 | <u>45</u> |
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | W/128.5 | -4.26 | <u>45</u> |
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | 46 |
| <u>16</u> | GEN | GVT OF CAN - NATIONAL DEFENSE | OTTAWA ON MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | W/128.5 | -4.26 | <u>47</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|------|---|---|--------------|------------------|----------------|
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | <u>47</u> |
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | OTTAWA ON MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | <u>48</u> |
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | OTTAWA ON K1A 0E9 MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | <u>49</u> |
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | OTTAWA ON MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | <u>50</u> |
| <u>16</u> | GEN | DEPT. OF NATIONAL DEFENSE | OTTAWA ON K1A 0E9 MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | <u>51</u> |
| <u>16</u> | GEN | GVT OF CAN - NATIONAL DEFENSE 17-505 | OTTAWA ON MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | W/128.5 | -4.26 | <u>52</u> |
| 17 | BORE | | OTTAWA ON K1A 0E9 | WSW/133.5 | -7.45 | 52 |
| _ | | | ON | ENE/400.0 | 0.45 | |
| <u>18</u> | EHS | | 256 Carling Avenue Ottawa ON K1S 2E1 | ENE/136.9 | 3.15 | <u>53</u> |
| <u>19</u> | EHS | | 770 Bronson Ave Ottawa ON K1S4G4 | E/136.9 | 2.89 | <u>53</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>53</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>53</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>54</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>54</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>54</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>54</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>55</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON | E/136.9 | 2.89 | <u>55</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>55</u> |
| <u>19</u> | EXP | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/136.9 | 2.89 | <u>55</u> |
| <u>20</u> | EHS | | 770 Bronson Avenue Ottawa ON K1S 4G4 | E/139.1 | 2.81 | <u>56</u> |
| <u>20</u> | PRT | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S4G4 | E/139.1 | 2.81 | <u>56</u> |
| <u>20</u> | PRT | EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | E/139.1 | 2.81 | <u>56</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|------|---|---|--------------|------------------|----------------|
| <u>21</u> | EHS | | 786 Bronson Ave Ottawa ON K1S4G4 | ESE/156.0 | 1.27 | <u>56</u> |
| <u>22</u> | SPL | | Bronson Ave and Carling Ave Ottawa ON | ENE/159.6 | 2.65 | <u>56</u> |
| <u>22</u> | SPL | OTTAWA HYDRO | CORNER OF CARLING & BRONSON OTTAWA TRANSFORMER OTTAWA CITY ON | ENE/159.6 | 2.65 | <u>57</u> |
| <u>23</u> | GEN | Goodex Equipment Rental Ltd | 515 Cambridge St. Ottawa ON | NNE/160.5 | 0.59 | <u>57</u> |
| <u>24</u> | EHS | | 345 Lebreton Street Ottawa ON K1A 0E9 | NW/161.0 | -0.53 | <u>57</u> |
| <u>25</u> | SPL | | 315 Powell Avenue <unofficial> Ottawa ON</unofficial> | N/168.9 | 2.34 | <u>57</u> |
| <u>26</u> | CA | R.M. OF OTTAWA-CARLETON | CLEMOW AVE/BRONSON AVE/BANK ST OTTAWA CITY ON | NE/173.2 | 1.81 | <u>58</u> |
| <u>27</u> | EHS | | 482 Cambridge St S Ottawa ON K1S4H7 | NNW/174.9 | 2.58 | <u>58</u> |
| <u>28</u> | WWIS | | Ottawa ON | WSW/176.9 | -8.64 | <u>58</u> |
| <u>29</u> | GEN | HYDRO OTTAWA LIMITED | 247 GLEBE OTTAWA ON K1S 2C8 | ENE/182.8 | 3.41 | <u>76</u> |
| <u>29</u> | GEN | OTTAWA HYDRO | 247 GLEBE AVENUE OTTAWA ON K1S 2C8 | ENE/182.8 | 3.41 | <u>76</u> |
| <u>30</u> | SCT | K&R Dental Laboratories Ltd. | 794 Bronson Ave Ottawa ON K1S 4G4 | ESE/184.4 | -0.02 | <u>76</u> |
| <u>30</u> | SCT | K & R Dental Laboratories Ltd | 794 Bronson Ave Ottawa ON K1S 4G4 | ESE/184.4 | -0.02 | <u>77</u> |
| 30 | SCT | K & R Dental Laboratories Ltd. | 794 Bronson Ave Ottawa ON K1S 4G4 | ESE/184.4 | -0.02 | · <u>77</u> |
| <u>30</u> | SCT | Shaw Laboratories | 794 Bronson Ave Ottawa ON K1S 4G4 | ESE/184.4 | -0.02 | <u>77</u> |
| <u>31</u> | CA | PUBLIC WORKS & GOVT. SERVICES CANADA | 615 BOOTH STREET OTTAWA CITY ON | WNW/186.8 | -7.28 | <u>77</u> |
| <u>31</u> | GEN | GVT. OF CAN ENERGY MINES & RES.18-151 | GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET | WNW/186.8 | -7.30 | <u>78</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E8 Room 721 601 Booth Street OTTAWA ON | WNW/186.8 | -7.30 | <u>78</u> |
| <u>31</u> | GEN | BROOKFIELD JOHNSON CONTROLS | 601 Booth St. Ottawa ON | WNW/186.8 | -7.30 | <u>79</u> |
| <u>31</u> | GEN | GVT. OF CAN ENERGY MINES & RES. | GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8 | WNW/186.8 | -7.30 | <u>79</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON K1A 0E8 | WNW/186.8 | -7.30 | <u>80</u> |
| <u>31</u> | GEN | GVT. OF CANENERGY, MINES & RES. | GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4 | WNW/186.8 | -7.30 | <u>81</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8 | WNW/186.8 | -7.30 | <u>81</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON | WNW/186.8 | -7.30 | <u>82</u> |
| 31 | GEN | GVT. OF CANENERGY, MINES & RES. 18-249 | GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. OTTAWA ON K1A 0E4 | WNW/186.8 | -7.30 | <u>83</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|-----|---|---|--------------|------------------|----------------|
| <u>31</u> | GEN | GVT. OF CAN ENERGY MINES & RES. | GEOLOGICAL SURVEY OF CANADA 601 BOOTH ST. | WNW/186.8 | -7.30 | <u>83</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E8 Room 721 601 Booth Street OTTAWA ON | WNW/186.8 | -7.30 | <u>84</u> |
| <u>31</u> | GEN | HEALTH AND WELFARE CANADA | 601 BOOTH STREET (EMR) HEALTH UNIT #7, RM 136 | WNW/186.8 | -7.30 | <u>84</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E4 Room 721 601 Booth Street OTTAWA ON | WNW/186.8 | -7.30 | <u>85</u> |
| 31 | GEN | HEALTH AND WELFARE CANADA | HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR) OTTAWA ON K1A 0E4 | WNW/186.8 | -7.30 | <u>86</u> |
| <u>31</u> | GEN | Brookfield Global Integrated Solutions | 615 Booth Street Ottawa ON K1A0E9 | WNW/186.8 | -7.28 | <u>86</u> |
| <u>31</u> | GEN | SNC Lavalin | 615 Booth Street Ottawa ON | WNW/186.8 | -7.28 | <u>87</u> |
| <u>31</u> | GEN | SNC Lavalin | 615 Booth Street Ottawa ON | WNW/186.8 | -7.28 | <u>87</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>87</u> |
| 31 | GEN | NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>88</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON K1A 0E9 | WNW/186.8 | -7.28 | <u>89</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>89</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>90</u> |
| 31 | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>91</u> |
| <u>31</u> | GEN | GVT. OF CANADA - PUBLIC WORKS | CANADIAN HYDROGRAPHIC SERV., 615 BOOTH C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3 | WNW/186.8 | -7.28 | <u>92</u> |
| <u>31</u> | GEN | GVT. OF CAN SEE & USE ON0269504 | SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9 | WNW/186.8 | -7.28 | <u>92</u> |
| 31 | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6 | WNW/186.8 | -7.28 | <u>92</u> |
| <u>31</u> | GEN | PUBLIC WORKS CANADA | 615 BOOTH STREET EMR-SURVEYS AND MAPPING | WNW/186.8 | -7.28 | <u>93</u> |
| <u>31</u> | GEN | GVT. OF CANSUPPLY AND SERVICES | OTTAWA ON K1A 0M3 COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 | WNW/186.8 | -7.28 | <u>93</u> |
| <u>31</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0S7 615 BOOTH STREET OTTAWA ON K1A 0E9 | WNW/186.8 | -7.28 | <u>94</u> |
| <u>31</u> | GEN | GVT. OF CAN ENERGY MINES & RES. | SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9 | WNW/186.8 | -7.28 | <u>94</u> |
| <u>31</u> | GEN | NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>95</u> |
| <u>31</u> | GEN | Stantec Consulting Ltd. | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | 96 |
| 31 | GEN | NATURAL RESOURCES CANADA | 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6 | WNW/186.8 | -7.28 | <u>96</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|------|---|---|--------------|------------------|----------------|
| <u>31</u> | GEN | BROOKFIELD JOHNSON CONTROLS | 615 Booth Street Ottawa ON | WNW/186.8 | -7.28 | <u>96</u> |
| <u>31</u> | GEN | MAPPING AND CHARTING ESTABLISHMENT | 615 BOOTH STREET OTTAWA ON K0A 1K0 | WNW/186.8 | -7.28 | <u>97</u> |
| <u>31</u> | GEN | NATURAL RESOURCES CANADA 18-167 | GEOMATICS CANADA 615 BOOTH STREET | WNW/186.8 | -7.28 | <u>97</u> |
| <u>31</u> | GEN | PUBLIC WORKS CANADA | OTTAWA ON CANADIAN HYDROGRAPHIC SERVICE 615 BOOTH STREET | WNW/186.8 | -7.28 | <u>98</u> |
| <u>31</u> | GEN | GVT. OF CANSUPPLY AND SERVICES 17-385 | OTTAWA ON K1A 0E6 COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7 | WNW/186.8 | -7.28 | <u>98</u> |
| <u>31</u> | GEN | NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISMENT 615 BOOTH STREET | WNW/186.8 | -7.28 | <u>99</u> |
| <u>31</u> | GEN | GVT. OF CANADA - PUBLIC WORKS 17-259 | OTTAWA ON K2P 0G2 CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 | WNW/186.8 | -7.28 | 100 |
| <u>31</u> | GEN | GVT OF CAN- HEALTH&WELFARE | OTTAWA ON K1A 0M3 SER.BR.,HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR), C/O 301 ELGIN ST | WNW/186.8 | -7.28 | <u>100</u> |
| <u>31</u> | GEN | CAN.MED.16-295 Stantec Consulting Ltd. | OTTAWA ON K1A 0L3 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | 100 |
| <u>31</u> | GEN | MAPPING A(SEE & USE ON2487206)MENT | 615 BOOTH STREET OTTAWA ON K0A 1K0 | WNW/186.8 | -7.28 | <u>101</u> |
| <u>31</u> | GEN | PUBLIC WORKS CANADA | 615 BOOTH STREET CANADIAN HYDROGRAPHIC SERVICE | WNW/186.8 | -7.28 | <u>101</u> |
| <u>31</u> | GEN | GVT. OF CAN ENERGY MINES & RES. | OTTAWA ON K1A 0E6 SVY, MAPPING & R.S., 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE IV OTTAWA ON K1A 0M3 | WNW/186.8 | -7.28 | <u>101</u> |
| <u>31</u> | GEN | NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | 102 |
| <u>31</u> | GEN | GVT. OF CAN(OUT OF BUSINESS) | COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7 | WNW/186.8 | -7.28 | 102 |
| 31 | GEN | GVT. OF CANADA - PUBLIC WORKS | CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 | WNW/186.8 | -7.28 | <u>103</u> |
| <u>31</u> | GEN | NATURAL RESOURCES CANADA | OTTAWA ON K1A 0M3 615 BOOTH STREET OTTAWA ON | WNW/186.8 | -7.28 | <u>103</u> |
| <u>31</u> | NPCB | ENERGY MINES & RESOURCES | 615 BOOTH ST. OTTAWA ON | WNW/186.8 | -7.28 | <u>10</u> |
| <u>31</u> | SCT | Canadian Hydro Graphic Service | 615 Booth St Floor 3 Room 311 Ottawa ON K1A 0E6 | WNW/186.8 | -7.28 | <u>104</u> |
| <u>31</u> | SPL | National Research Council of Canada; SNC Lavalin Engineers and Constructors | 615 Booth Street Ottawa ON K1A 0E9 | WNW/186.8 | -7.28 | 104 |
| <u>31</u> | SPL | SNC Lavalin Engineers and Constructors | 615 Booth St. Ottawa ON | WNW/186.8 | -7.28 | <u>105</u> |
| <u>31</u> | SPL | SNC-Lavalin ProFac Facilities Management | 615 Booth Street Ottawa ON | WNW/186.8 | -7.28 | <u>105</u> |
| <u>31</u> | SPL | SNC-Lavalin Profac Inc. | 615 Booth St. Ottawa ON | WNW/186.8 | -7.28 | <u>105</u> |
| <u>31</u> | SPL | Natural Resources Canada <unofficial></unofficial> | Mechanical Room, 615 Booth St Ottawa ON | WNW/186.8 | -7.28 | <u>106</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|------------|------|---|--|--------------|------------------|----------------|
| <u>31</u> | WWIS | | OTTAWA ON | WNW/186.8 | -7.28 | <u>106</u> |
| <u>32</u> | FCS | | Ottawa ON | W/189.0 | -8.96 | 108 |
| <u>33</u> | EHS | | 788 Bronson Ottawa ON K1S 4G4 | ESE/192.7 | 0.07 | 108 |
| <u>34</u> | BORE | | ON | NE/195.8 | 1.90 | 108 |
| <u>35</u> | BORE | | ON | NNE/202.5 | 1.31 | <u>109</u> |
| <u>36</u> | EHS | | Dow's Lake Rd. & Kippewa Drive Ottawa ON | SSE/206.7 | -5.64 | <u>110</u> |
| <u>37</u> | GEN | SNC Lavalin | 601 Booth St. Ottawa ON | WNW/213.7 | -6.68 | <u>110</u> |
| <u>37</u> | GEN | SNC Lavalin | 601 Booth St. Ottawa ON | WNW/213.7 | -6.68 | <u>110</u> |
| <u>37</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON | WNW/213.7 | -6.68 | <u>110</u> |
| <u>37</u> | GEN | GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON K1A 0E8 | WNW/213.7 | -6.68 | <u>111</u> |
| <u>37</u> | GEN | BROOKFIELD GLOBAL INTERGRATED SOLUTIONS | 601 Booth St. Ottawa ON K1A0E8 | WNW/213.7 | -6.68 | 112 |
| <u>37</u> | SPL | | 601 Booth St. Ottawa ON | WNW/213.7 | -6.68 | <u>113</u> |
| <u>38</u> | EHS | | Carling Avenue from O-Train to Bronson Ave. | WSW/221.2 | -8.95 | 113 |
| <u>39</u> | SPL | Enbridge Gas Distribution Inc. | Ottawa ON 680 Bronson Ave Ottawa ON | NNE/226.6 | 0.37 | 113 |
| <u>40</u> | CA | OTTAWA CITY, DESIGN & CONSTRUCTION DIV. | SECOND AVE./BRONSON AVE., CSO OTTAWA ON | ESE/231.2 | -1.04 | <u>11</u> |
| <u>40</u> | CA | R.M. OF OTTAWA-CARLETON | SECOND AVE/BRONSON AVE/BANK ST OTTAWA ON | ESE/231.2 | -1.04 | <u>11</u> |
| 41 | BORE | | ON | N/233.7 | 1.20 | <u>114</u> |
| <u>42</u> | SPL | FIRST FUEL | 812 BRONSON TANK TRUCK (CARGO) OTTAWA CITY ON K1S 4G4 | ESE/236.8 | -0.81 | <u>11</u> |
| <u>43</u> | SPL | Hydro-Ottawa | 272 Powell Street Ottawa ON K1S 2A5 | NE/241.0 | 0.31 | <u>115</u> |

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 4 BORE site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|----------------|---------------------|----------------|
| | ON | 133.5 | <u>17</u> |
| | ON | 195.8 | <u>34</u> |
| | ON | 202.5 | <u>35</u> |
| | ON | 233.7 | <u>41</u> |

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 6 CA site(s) within approximately 0.25 kilometers of the project property.

| Site Carleton Condominium Corporation No. 472 | Address 550 Cambridge St S Ottawa ON | Distance (m) 43.3 | Map Key |
|---|--|----------------------|-----------|
| Canci Homes Corporation Inc. | 385 Bell Street Ottawa ON | 80.4 | <u>7</u> |
| R.M. OF OTTAWA-CARLETON | CLEMOW AVE/BRONSON AVE/BANK ST OTTAWA CITY ON | 173.2 | <u>26</u> |
| PUBLIC WORKS & GOVT. SERVICES CANADA | 615 BOOTH STREET OTTAWA CITY ON | 186.8 | <u>31</u> |
| OTTAWA CITY, DESIGN & CONSTRUCTION DIV. | SECOND AVE./BRONSON AVE., CSO OTTAWA ON | 231.2 | <u>40</u> |
| R.M. OF OTTAWA-CARLETON | SECOND AVE/BRONSON AVE/BANK ST OTTAWA ON | 231.2 | <u>40</u> |

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 15 EHS site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|-------------|---|--------------|----------------|
| | 280 Carling Avenue Ottawa ON K1S 2E2 | 71.2 | <u>3</u> |

| Site | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|------|---|--------------|----------------|
| | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| | 265 Carling Avenue Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| | 515 Cambridge St Ottawa ON K1S 4H9 | 113.1 | <u>14</u> |
| | 515 Cambridge Street Ottawa ON K1S 4H9 | 113.1 | <u>14</u> |
| | 774 Bronson Ave Ottawa ON K1S4G4 | 123.0 | <u>15</u> |
| | 256 Carling Avenue Ottawa ON K1S 2E1 | 136.9 | <u>18</u> |
| | 770 Bronson Ave Ottawa ON K1S4G4 | 136.9 | <u>19</u> |
| | 770 Bronson Avenue Ottawa ON K1S 4G4 | 139.1 | <u>20</u> |
| | 786 Bronson Ave Ottawa ON K1S4G4 | 156.0 | <u>21</u> |
| | 345 Lebreton Street Ottawa ON K1A 0E9 | 161.0 | <u>24</u> |
| | 482 Cambridge St S Ottawa ON K1S4H7 | 174.9 | <u>27</u> |
| | 788 Bronson Ottawa ON K1S 4G4 | 192.7 | <u>33</u> |
| | Dow's Lake Rd. & Kippewa Drive Ottawa ON | 206.7 | <u>36</u> |
| | Carling Avenue from O-Train to Bronson Ave. Ottawa ON | 221.2 | <u>38</u> |

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Aug 31, 2016 has found that there are 10 EXP site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|-------------------------------|-------------------------------------|--------------|----------------|
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|-------------------------------|-------------------------------------|--------------|----------------|
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 136.9 | <u>19</u> |

FCS - Contaminated Sites on Federal Land

A search of the FCS database, dated June 2000-Oct 2015 has found that there are 2 FCS site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|-------------|----------------|--------------|----------------|
| | Ottawa ON | 71.4 | <u>4</u> |
| | Ottawa ON | 189.0 | <u>32</u> |

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Sep 2016 has found that there are 87 GEN site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | Map Key |
|---|---|--------------|-----------|
| 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | 83.2 | <u>8</u> |
| Associated Endodontists | 265 Carling Ave, unit 620 Ottawa ON K1S2E1 | 83.2 | <u>8</u> |
| 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON | 83.2 | <u>8</u> |
| Associated Endodontists | 265 Carling Ave, unit 620 Ottawa ON | 83.2 | <u>8</u> |
| GVT. OF (OUT OF BUSINESS)ES & RESOURCES | 401 LEBRETON STREET OTTAWA ON K1A 0E8 | 103.4 | <u>10</u> |
| GVT. OF CAN ENERGY MINES & RESOURCES | 401 LEBRETON STREET OTTAWA ON K1A 0E8 | 103.4 | <u>10</u> |
| GVT. OF CAN ENERGY MINES & RES. | TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8 | 103.4 | <u>10</u> |
| GVT. OF CAN ENERGY MINES & RES.18-270 | TERRAIN SCIENCES GEOLOGICAL SURVEY 401 LEBRETON ST. OTTAWA ON K1A 0E8 | 103.4 | <u>10</u> |
| Quantum Murray LP | 401 Lebreton Street Ottawa ON | 103.4 | <u>10</u> |
| | Ollawa ON | | |

| Site | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|--|--|--------------|----------------|
| BLACK & MCDONALD LIMITED | 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4 | 106.5 | <u>11</u> |
| BLACK & MCDONALD LIMITED 05-619 | 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4 | 106.5 | <u>11</u> |
| Taggart Corporation | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| 265 Carling Avenue Ltd. | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | 12 |
| Taggart Corporation | 265 Carling Ave Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| OTTAWA-CARLETON DISTRICT SCHOOL BOARD | BORDEN HIGH SCHOOL 515 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4H9 | 113.1 | 14 |
| OTTAWA BOARD OF EDUCATION 29-129 | BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST | 113.1 | <u>14</u> |
| OTTAWA BOARD OF EDUCATION | OTTAWA ON K2P 0P9 515 CAMBRIDGE STREET SOUTH BORDEN HIGH SCHOOL | 113.1 | <u>14</u> |
| OTTAWA BOARD OF EDUCATION | OTTAWA ON K1S 4H9 BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST | 113.1 | <u>14</u> |
| DEPT. OF NATIONAL DEFENSE | OTTAWA ON K2P 0P9 MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | 128.5 | <u>16</u> |
| DEPT. OF NATIONAL DEFENSE | OTTAWA ON K1A 0E9 MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON | 128.5 | <u>16</u> |
| GVT OF CAN - NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | 128.5 | <u>16</u> |
| DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON | 128.5 | <u>16</u> |
| DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | 128.5 | <u>16</u> |
| DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON | 128.5 | <u>16</u> |
| DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | 128.5 | <u>16</u> |
| DEPT. OF NATIONAL DEFENSE | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON | 128.5 | <u>16</u> |
| GVT OF CAN - NATIONAL DEFENSE 17-505 | MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | 128.5 | <u>16</u> |
| Goodex Equipment Rental Ltd | 515 Cambridge St. Ottawa ON | 160.5 | <u>23</u> |
| HYDRO OTTAWA LIMITED | 247 GLEBE OTTAWA ON K1S 2C8 | 182.8 | <u>29</u> |

| Site | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|---|---|--------------|----------------|
| OTTAWA HYDRO | 247 GLEBE AVENUE OTTAWA ON K1S 2C8 | 182.8 | <u>29</u> |
| Stantec Consulting Ltd. | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| NATURAL RESOURCES CANADA | 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6 | 186.8 | <u>31</u> |
| BROOKFIELD JOHNSON CONTROLS | 615 Booth Street Ottawa ON | 186.8 | <u>31</u> |
| MAPPING AND CHARTING ESTABLISHMENT | 615 BOOTH STREET OTTAWA ON K0A 1K0 | 186.8 | <u>31</u> |
| NATURAL RESOURCES CANADA 18-167 | GEOMATICS CANADA 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| PUBLIC WORKS CANADA | CANADIAN HYDROGRAPHIC SERVICE 615 BOOTH STREET | 186.8 | <u>31</u> |
| GVT. OF CANSUPPLY AND SERVICES 17-385 | OTTAWA ON K1A 0E6 COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 | 186.8 | <u>31</u> |
| NATIONAL DEFENSE | OTTAWA ON K1A 0S7 MAPPING & CHARTING ESTABLISMENT 615 BOOTH STREET | 186.8 | <u>31</u> |
| GVT. OF CANADA - PUBLIC WORKS 17-259 | OTTAWA ON K2P 0G2 CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 | 186.8 | <u>31</u> |
| GVT OF CAN-HEALTH&WELFARE CAN.MED.16-295 | OTTAWA ON K1A 0M3 SER.BR.,HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR), C/O 301 ELGIN ST OTTAWA ON K1A 0L3 | 186.8 | <u>31</u> |
| Stantec Consulting Ltd. | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| MAPPING A(SEE & USE ON2487206)MENT | 615 BOOTH STREET OTTAWA ON K0A 1K0 | 186.8 | <u>31</u> |
| PUBLIC WORKS CANADA | 615 BOOTH STREET CANADIAN HYDROGRAPHIC SERVICE OTTAWA ON K1A 0E6 | 186.8 | <u>31</u> |
| GVT. OF CAN ENERGY MINES & RES. | SVY, MAPPING & R.S., 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE IV | 186.8 | <u>31</u> |
| NATURAL RESOURCES CANADA | OTTAWA ON K1A 0M3 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CAN(OUT OF BUSINESS) | COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 | 186.8 | <u>31</u> |
| GVT. OF CANADA - PUBLIC WORKS | OTTAWA ON K1A 0S7 CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 | 186.8 | <u>31</u> |
| NATURAL RESOURCES CANADA | OTTAWA ON K1A 0M3 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CAN ENERGY MINES & RES.18-151 | GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8 | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON | 186.8 | <u>31</u> |
| BROOKFIELD JOHNSON CONTROLS | 601 Booth St. Ottawa ON | 186.8 | <u>31</u> |

| <u>Site</u> | <u>Address</u> | Distance (m) | Map Key |
|---|---|--------------|-----------|
| GVT. OF CAN ENERGY MINES & RES. | GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8 | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON K1A 0E8 | 186.8 | <u>31</u> |
| GVT. OF CANENERGY, MINES & RES. | GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E4 GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E8 Room 721 601 Booth Street OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CANENERGY, MINES & RES. 18-249 | GEOLOGICAL COMMISSION OF CANADA 601 BOOTH ST. | 186.8 | <u>31</u> |
| GVT. OF CAN ENERGY MINES & RES. | OTTAWA ON K1A 0E4 GEOLOGICAL SURVEY OF CANADA 601 BOOTH ST. | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E8 Room 721 601 Booth Street OTTAWA ON | 186.8 | <u>31</u> |
| HEALTH AND WELFARE CANADA | 601 BOOTH STREET (EMR) HEALTH UNIT #7, RM 136 | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | OTTAWA ON K1A 0E4 Room 721 601 Booth Street OTTAWA ON | 186.8 | <u>31</u> |
| HEALTH AND WELFARE CANADA | HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR) | 186.8 | <u>31</u> |
| Brookfield Global Integrated Solutions | OTTAWA ON K1A 0E4 615 Booth Street Ottawa ON K1A0E9 | 186.8 | <u>31</u> |
| SNC Lavalin | 615 Booth Street Ottawa ON | 186.8 | <u>31</u> |
| SNC Lavalin | 615 Booth Street Ottawa ON | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON K1A 0E9 | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| GVT. OF CANADA - PUBLIC WORKS | CANADIAN HYDROGRAPHIC SERV., 615 BOOTH C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3 | 186.8 | <u>31</u> |
| GVT. OF CAN SEE & USE ON0269504 | SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9 | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6 | 186.8 | <u>31</u> |

| Site | <u>Address</u> | Distance (m) | Map Key |
|---|---|--------------|-----------|
| PUBLIC WORKS CANADA | 615 BOOTH STREET EMR-SURVEYS AND MAPPING OTTAWA ON K1A 0M3 | 186.8 | <u>31</u> |
| GVT. OF CANSUPPLY AND SERVICES | COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7 | 186.8 | <u>31</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON K1A 0E9 | 186.8 | <u>31</u> |
| GVT. OF CAN ENERGY MINES & RES. | SURVEYS & MAPPING 615 BOOTH STREET OTTAWA ON K1A 0E9 | 186.8 | <u>31</u> |
| NATURAL RESOURCES CANADA | 615 BOOTH STREET OTTAWA ON | 186.8 | <u>31</u> |
| SNC Lavalin | 601 Booth St. Ottawa ON | 213.7 | <u>37</u> |
| SNC Lavalin | 601 Booth St. Ottawa ON | 213.7 | <u>37</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON | 213.7 | <u>37</u> |
| GVT. OF CAN NATURAL RESOURCES CANADA | Room 721 601 Booth Street OTTAWA ON K1A 0E8 | 213.7 | <u>37</u> |
| BROOKFIELD GLOBAL INTERGRATED SOLUTIONS | 601 Booth St. Ottawa ON K1A0E8 | 213.7 | <u>37</u> |

NPCB - National PCB Inventory

A search of the NPCB database, dated 1988-2008* has found that there are 1 NPCB site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|--------------------------|----------------------------|--------------|----------------|
| ENERGY MINES & RESOURCES | 615 BOOTH ST. OTTAWA ON | 186.8 | <u>31</u> |

OPCB - Inventory of PCB Storage Sites

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 1 OPCB site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|----------------------------|--|--------------|----------------|
| ENERGY MINES AND RESOURCES | TERRAIN SCIENCES DIVISION 401 LIBRETON ST. OTTAWA ON | 103.4 | <u>10</u> |

PES - Pesticide Register

A search of the PES database, dated 1988-Jun 2013 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> | |
|----------------------|--|--------------|----------------|--|
| TERRAPRO CORPORATION | 401-A LEBRETON STREET SOUTH OTTAWA ON K1S 4L5 | 103.4 | <u>10</u> | |

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Aug 31, 2016 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | Map Key |
|-------------|--|--------------|----------|
| | 7 Frederick Place,Ottawa ON K1S 3G1 | 69.8 | <u>2</u> |

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|-------------------------------|-------------------------------------|--------------|----------------|
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S 4G4 | 139.1 | <u>20</u> |
| EMILIO LINDIA ENTERPRISES LTD | 770 BRONSON AV OTTAWA ON K1S4G4 | 139.1 | <u>20</u> |

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 11 SCT site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|--------------------------------|--|--------------|----------------|
| SCAFFOLD-FAST INC. | 385 BELL ST S OTTAWA ON K1S 4K3 | 80.1 | <u>6</u> |
| Cdn Post-M.D. Education Regist | 265 Carling Ave Suite 800 Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| Beyond 20/20 Inc. | 265 Carling Ave Suite 500 Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| NORTAK SOFTWARE LTD | 265 CARLING AVE FLOOR 7 OTTAWA ON K1S 2E1 | 108.3 | <u>12</u> |
| Assn Faculties Medicine of Cda | 265 Carling Ave Suite 800 Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| Nortak Software Ltd. | 265 Carling Ave Floor 7 Ottawa ON K1S 2E1 | 108.3 | <u>12</u> |
| Shaw Laboratories | 794 Bronson Ave Ottawa ON K1S 4G4 | 184.4 | <u>30</u> |
| K & R Dental Laboratories Ltd. | 794 Bronson Ave Ottawa ON K1S 4G4 | 184.4 | <u>30</u> |

| Site | <u>Address</u> | Distance (m) | <u>Map Key</u> |
|--------------------------------|--|--------------|----------------|
| K & R Dental Laboratories Ltd | 794 Bronson Ave Ottawa ON K1S 4G4 | 184.4 | <u>30</u> |
| K&R Dental Laboratories Ltd. | 794 Bronson Ave Ottawa ON K1S 4G4 | 184.4 | <u>30</u> |
| Canadian Hydro Graphic Service | 615 Booth St Floor 3 Room 311 Ottawa ON K1A 0E6 | 186.8 | <u>31</u> |

SPL - Ontario Spills

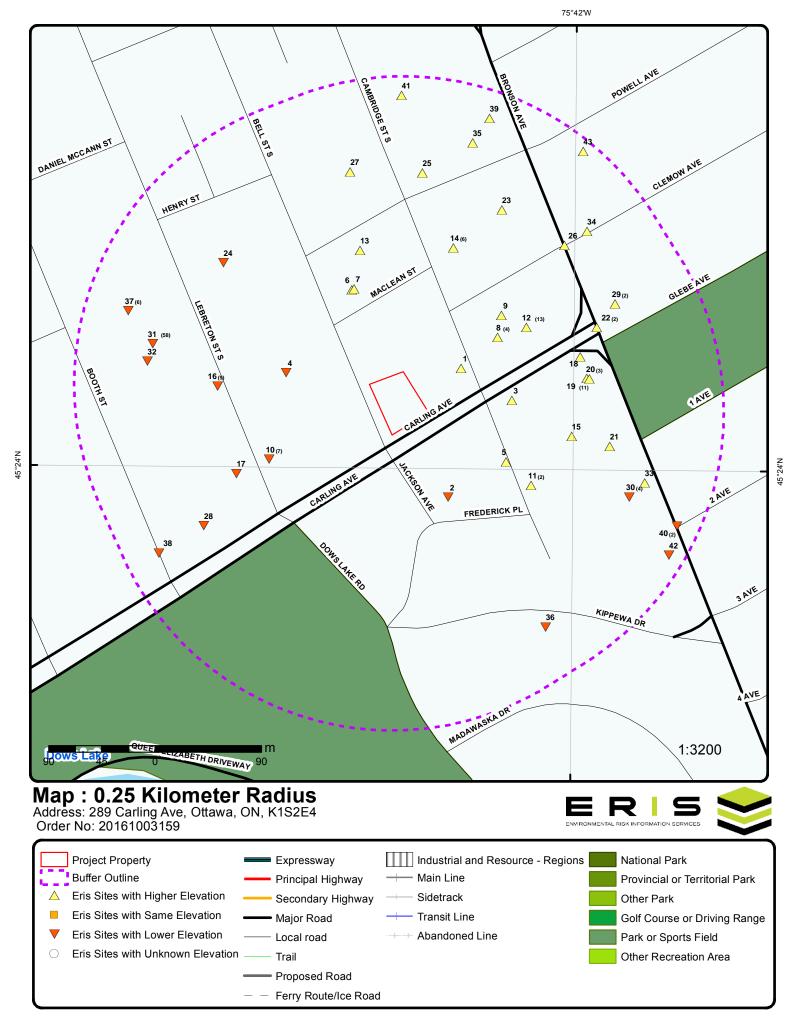
A search of the SPL database, dated 1988-Jan 2016 has found that there are 13 SPL site(s) within approximately 0.25 kilometers of the project property.

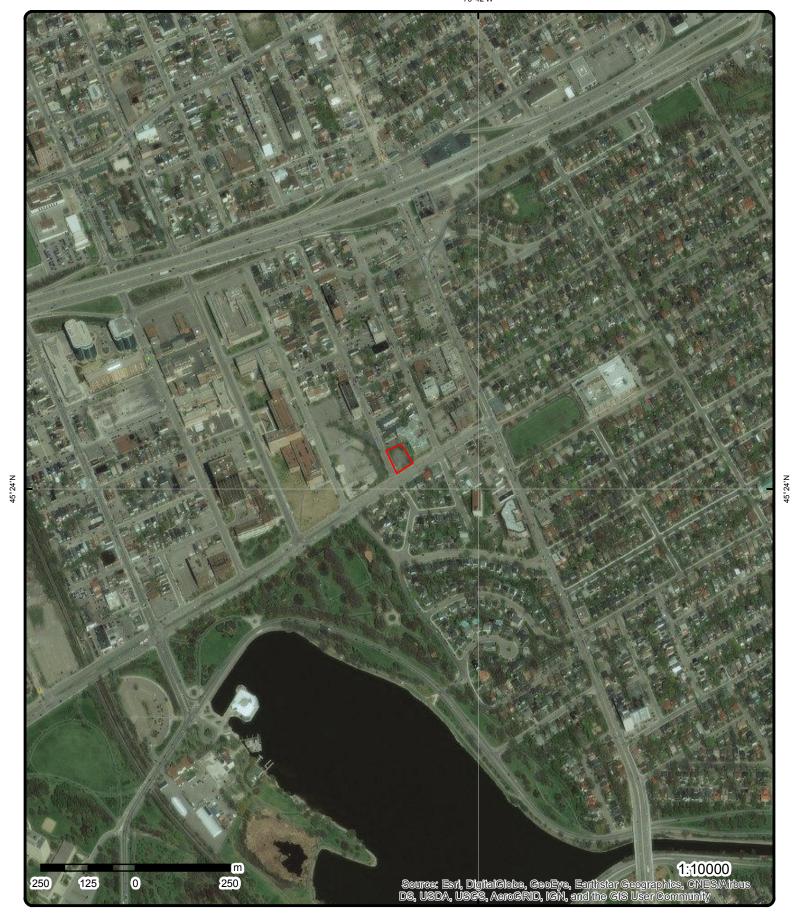
| <u>Site</u> | <u>Address</u> | Distance (m) | Map Key |
|---|---|--------------|-----------|
| PUC | POLE TRANSFORMER OPPOSITE 326 POWELL STREET. OTTAWA CITY ON K1S 2A8 | 108.8 | <u>13</u> |
| | Bronson Ave and Carling Ave Ottawa ON | 159.6 | <u>22</u> |
| OTTAWA HYDRO | CORNER OF CARLING & BRONSON OTTAWA TRANSFORMER OTTAWA CITY ON | 159.6 | <u>22</u> |
| | 315 Powell Avenue <unofficial> Ottawa ON</unofficial> | 168.9 | <u>25</u> |
| SNC-Lavalin ProFac Facilities Management | 615 Booth Street Ottawa ON | 186.8 | <u>31</u> |
| National Research Council of Canada; SNC Lavalin Engineers and Constructors | 615 Booth Street Ottawa ON K1A 0E9 | 186.8 | <u>31</u> |
| Natural Resources Canada <unofficial></unofficial> | Mechanical Room, 615 Booth St Ottawa ON | 186.8 | <u>31</u> |
| SNC Lavalin Engineers and Constructors | 615 Booth St. Ottawa ON | 186.8 | <u>31</u> |
| SNC-Lavalin Profac Inc. | 615 Booth St. Ottawa ON | 186.8 | <u>31</u> |
| | 601 Booth St. Ottawa ON | 213.7 | <u>37</u> |
| Enbridge Gas Distribution Inc. | 680 Bronson Ave Ottawa ON | 226.6 | <u>39</u> |
| FIRST FUEL | 812 BRONSON TANK TRUCK (CARGO) OTTAWA CITY ON K1S 4G4 | 236.8 | <u>42</u> |
| Hydro-Ottawa | 272 Powell Street Ottawa ON K1S 2A5 | 241.0 | <u>43</u> |

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 4 WWIS site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|----------------|---------------------|----------------|
| | ON | 78.0 | <u>5</u> |
| | Ottawa ON | 95.7 | <u>9</u> |
| | Ottawa ON | 176.9 | <u>28</u> |
| | OTTAWA ON | 186.8 | <u>31</u> |





Aerial

Address: 289 Carling Ave, Ottawa, ON, K1S2E4

Detail Report

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|------------------------------------|---|------------------|---|------|
| 1 | 1 of 1 | ENE/43.3 | 78.1 | Carleton Condominium Corporation No. 472 550 Cambridge St S Ottawa ON | CA |
| Certificate # Application Issue Date: Approval Ty Status: Application Client Name Client Addre Client City: Client Posta | Year: pe: Type: : ess: | 9353-7TZK46 2009 7/17/2009 Air Approved | | | |
| Project Desc Contaminan Emission Co | ts: | | | | |
| <u>2</u> | 1 of 1 | SSE/69.8 | 71.7 | 7 Frederick Place,Ottawa ON K1S 3G1 | PINC |
| Incident ID: Tank Status Attribute Ca Task Numbe | tegory: | 2692924 | | | |
| Type: Incident Nur Status Code Summary: | mber: | FS-Pipeline Incider 536484 Pipeline Damage R 7 Frederick Place,(| leason Est | : Hit | |
| Spills Action Reported By Affiliation: Method Deta | <i>:</i> : | Stiles, Jeff - Enbrid Industry Stakehold utility damage | | tration/Certificate Holder, Facility Owner, etc.) | |
| Fuel Catego Fuel Occurre Date of Occu Occurrence | ence Type: urrence: | Heating Fuel | | | |
| Health Impa Occurrence Environmen | ct: Desc: t Impact: | | | | |
| Property Da Service Intel Fuel Type: Enforce Poli | rupt: cy: | | | | |
| Operation Ty Damage Rea Public Relat Pipeline Sys | ison: ion: | | | | |
| Pipeline Typ Depth: Pipe Materia | e: : | | | | |
| Regualtor Lo | | | | | |

Order No: 20161003159

Regulator Type:

Map Key Number of Direction/ Elevation Site DΒ Records Distance (m) (m)

Notes:

1 of 1 E/71.2 77.5 280 Carling Avenue 3 **EHS** Ottawa ON K1S 2E2

Postal Code: City: Address2: Address1: Provstate:

20091222046 Order No.:

Addit. Info Ordered:

12/31/2009 Report Date: Report Type: **Custom Report**

Search Radius (km): 0.25

1 of 1 WNW/71.4 69.6 4 **FCS** Ottawa ON

Location: Former NCC Building Site Name: National Capital 08886001 Departmental Id:

Site Id: 08886001 Property No.: 8886 Ottawa Municipality: Census Division: Ottawa Federal Electoral District: Ottawa Centre

Nearest Populated Area:

Longitude: -75.7031 45.40072 Latitude:

Reporting Organization: Public Works and Government Services Canada

Reason for Involvement: Federal Real Property

5000 Est m³ Contaminated:

Est Ha Contaminated: Est Tons Contaminated:

Site Management Strategy: Other

Highest Step Completed: Confirmatory Sampling and Final Reporting

Record of Site Condition obtained. No further action required. FY2007-08: abandonment of on-site monitoring Action Plan:

Additional Info: Poly-aromatic Hydrocarbons (PAH) and heavy metal contamination is located in the garage in the vicinity of the

mechanics pit.

--- Details ---

Medium: Not Available

Contaminant: Petroleum hydrocarbons and PAH's

Medium: Not Available

Metal, metalloid, and organometallic Contaminant:

5 1 of 1 ESE/78.0 74.9 **WWIS** ON

> Concession: Concession Name:

Zone:

Easting NAD83:

Northing NAD83:

UTM Reliability:

Order No: 20161003159

Well ID: 7152295 Lot:

Construction Date: Primary Water Use: Monitoring Sec. Water Use:

Final Well Status: Abandoned-Other Specific Capacity:

Municipality: OTTAWA CITY (NEPEAN)

OTTAWA-CARLETON County:

Bore Hole Information

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|---|--|------------------|------|----|
| Bore Hole ID: DP2BR: Code OB: Code OB Des Open Hole: Date Complei | cription: | 1003611067 | | | |
| Remarks: Zone: East 83: North 83: UTMRC: UTMRC Desc Location Met Org CS: Elevation: | | 18 45005 5027563 9 unknown UTM wwr UTM83 | | | |
| Elevrc: Elevrc Descri Location Sou Source Revis Improvement | rce Date: ion Comment: Location Source: Location Method: nment: | | | | |
| Sealing Reco | e/Abandonment rd | | | | |
| Plug ID: Layer: Plug From: Plug To: Plug Depth U | OM: | 1003611071 | | | |
| Plug ID: Layer: Plug From: Plug To: Plug Depth U | OM: | 1003611072 | | | |
| Use | nstruction & Well | | | | |
| Method Cons | truction Code: truction: | 1003611070 | | | |
| Pipe Informati | l Construction: tion | AUGER | | | |
| Pipe ID: Casing Numb Comment: Alt Name: | er: | 1003611073 0 | | | |
| Construction | Record - Casing | | | | |
| Casing ID: Layer: Open Hole or | Material: | 1003611075 PLASTIC | | | |
| Depth From: Depth To: | | 4 | | | |

4

m

Depth To:

Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM:

-- Construction Record - Screen

Screen ID: 1003611074

Layer: Slot:

Screen Top Depth: 4 Screen End Depth: 4 Screen Material:

Screen Depth UOM: m Screen Diameter UOM: Screen Diameter:

---Well Yield Testing

weii Yieia Testing

Pump Test ID: 1003611076

Pump Set At:

Static Level: .32

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM: Rate UOM:

Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN:

Flowing:

--Hole Diameter

Hole ID: 1003611069

Diameter: 22.2

Depth From:

Depth To: 4
Hole Depth UOM: m
Hole Diameter UOM: cm
--

Bore Hole ID: 1003611087

DP2BR: Code OB:

Code OB Description:

Open Hole:
Date Completed:
Remarks:

Zone: 18 **East 83:** 445159 **North 83:** 5027632

UTMRC: 4

UTMRC Description: margin of error : 30 m - 100 m

Location Method: wwr Org CS: UTM83

Elevation: Elevrc:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method:

Supplier Comment: Spatial Status:

<u>,</u>

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

Annular Space/Abandonment

Sealing Record

•

Plug ID: Layer: Plug From: Plug To: 1003611092

Plug Depth UOM:

· ._ ._

Plug ID: 1003611091 **Layer:**

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

Plug Depth UOM:

Method of Construction & Well Use

-

Method Construction ID: 1003611090

Method Construction Code: Method Construction:

Other Method Construction: AUGER

-

Pipe Information

Pipe ID: 1003611093

Casing Number: 0

Comment:

Alt Name:

Construction Record - Casing

Casing ID: 1003611095

Layer:
Open Hole or Material: PLASTIC

Depth From:
Depth To: 4

Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM:

Construction Record - Screen

Screen ID: 1003611094

Layer: Slot:

Screen Top Depth: 4
Screen End Depth: 4
Screen Material:
Screen Depth UOM: m

Screen Diameter UOM: Screen Diameter:

--- Well Yield Testing

Pump Test ID: 1003611096

Pump Set At: Static Level: 1

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM: Rate UOM:

DΒ Map Key Number of Direction/ Elevation Site Records Distance (m) (m)

Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: **Pumping Duration MIN:**

Flowing:

Hole Diameter

1003611089 Hole ID:

Diameter: 22.2 Depth From: 4 Depth To: Hole Depth UOM: m Hole Diameter UOM: cm

Bore Hole ID: 1003611077

DP2BR: Code OB:

Code OB Description:

Open Hole: Date Completed: Remarks:

Zone: 18 445194 East 83: North 83: 5027576 UTMRC:

UTMRC Description: margin of error: 30 m - 100 m

Location Method: Org CS: UTM83

Elevation: Elevrc:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method:

Supplier Comment: Spatial Status:

Annular Space/Abandonment

Sealing Record

Plug ID: 1003611081

Layer: Plug From: Plug To:

Plug Depth UOM:

Plug ID: 1003611082 Layer:

Plug From: Plug To: Plug Depth UOM:

Method of Construction & Well

Use

Method Construction ID: 1003611080

Method Construction Code: Method Construction:

Other Method Construction: **AUGER**

Pipe Information

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-----------------------------|----------------------|----------------------------|------------------|------|----|
| Pipe ID: | | 1003611083 | | | |
| Casing Num | ber: | 0 | | | |
| Comment: Alt Name: | | | | | |
| All Name. | | | | | |
| Construction | Record - Casing | | | | |
| | | | | | |
| Casing ID: Layer: | | 1003611085 | | | |
| Open Hole of Depth From: | | PLASTIC | | | |
| Depth To: | | 4 | | | |
| Casing Diam Casing Diam | | | | | |
| Casing Dept | | m | | | |
| | | | | | |
| - | | | | | |
| Construction | Record - Screen | | | | |
| Screen ID: | | 1003611084 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top I | | 4 4 | | | |
| Screen End I Screen Mate | | 4 | | | |
| Screen Dept | | m | | | |
| Screen Diam | eter UOM: | | | | |
| Screen Diam | eter: | | | | |
| Well Yield Te | estina | | | | |
| | oung . | | | | |
| Pump Test II | | 1003611086 | | | |
| Pump Set At | | 0 | | | |
| Static Level: | fter Pumping: | 0 | | | |
| Recommend | ed Pump Depth: | | | | |
| Pumping Rate Flowing Rate | | | | | |
| | ed Pump Rate: | | | | |
| Levels UOM: | | | | | |
| Rate UOM: | After Test Code: | | | | |
| Water State | | | | | |
| Pumping Tes | | | | | |
| Pumping Du | | | | | |
| Pumping Du | ration MIN: | | | | |
| Flowing: | | | | | |
| Hole Diamete | er | | | | |
| Hole ID: | | 1003611079 | | | |
| Diameter: | | 22.2 | | | |
| Depth From: | | 4 | | | |
| Depth To: Hole Depth U | IOM: | 4 m | | | |
| Hole Diamet | er UOM: | cm | | | |
| | | | | | |
| | | | | | |
| Bore Hole ID DP2BR: | : | 1003342643 | | | |
| Code OB: | | | | | |
| Code OB De Open Hole: | scription: | | | | |
| Date Comple | ted: | | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |

18

Zone:

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|---|---|------------------|--|-----|
| East 83: North 83: UTMRC: UTMRC Desc Location Met Org CS: Elevation: Elevrc: | • | 445075 5027613 3 margin of error : 10 wwr UTM83 70.61 | - 30 m | | |
| Elevrc Descr Location Sou Source Revis Improvemen | urce Date: sion Comment: t Location Source: t Location Method: nment: | | | | |
| Annular Spa Sealing Reco | ce/Abandonment ord | | | | |
| Plug ID: Layer: Plug From: Plug To: Plug Depth U | IOM: | 1003611098 1 4 0 | | | |
| | onstruction & Well | <u></u> | | | |
| Method Cons | struction Code: | 1003611100 B Other Method AUGER | | | |
| Hole Diamete | er | | | | |
| Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete | JOM: | 1003611097 22.2 0 4 m cm | | | |
| <u>6</u> | 1 of 1 | NNW/80.1 | 77.7 | SCAFFOLD-FAST INC. 385 BELL ST S OTTAWA ON K1S 4K3 | SCT |
| Established: Plant Size (ft Employment | ²): | 1957 0 13 | | | |
| Details Description SIC/NAICS + | | CONSTRUCTION 8 5082 | MINING (EXCEPT | PETROLEUM) MACHINERY | |
| Description SIC/NAICS | | INDUSTRIAL MACE 5084 | HINERY & EQUIPMI | ENT | |
| 7_ | 1 of 1 | NNW/80.4 | 77.7 | Canci Homes Corporation Inc. 385 Bell Street Ottawa ON | CA |
| Certificate #: | • | 4415-5VKLDD | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--|---|------------------|--|-----|
| Application Y Issue Date: Approval Typ Status: Application To Client Name: Client Addre Client City: Client Postal Project Desc Contaminant Emission Co | oe: Type: ss: Code: ription: | 2004 1/26/2004 Municipal and Privat Approved | e Sewage Works | | |
| <u>8</u> | 1 of 4 | ENE/83.2 | 77.5 | Associated Endodontists 265 Carling Ave, unit 620 Ottawa ON K1S2E1 | GEN |
| PO Box Num Status: Country: Generator #: Approval Yrs SIC Code: SIC Descript | s: | Registered Canada ON5430079 As of Sep 2016 | | | |
| Details Waste Cod Waste Des | | 312 P Pathological wastes | | | |
| <u>8</u> | 2 of 4 | ENE/83.2 | 77.5 | 265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON | GEN |
| PO Box Num Status: Country: Generator #: Approval Yrs SIC Code: SIC Descript: Details Waste Cod | :: ion: | ON2678739 2013 531310 REAL ESTATE PRO | DPERTY MANAGER | es | |
| Waste Desc | | PCBS ENE/83.2 | 77.5 | Associated Endodontists | OFN |
| PO Box Num | | | - | 265 Carling Ave, unit 620 Ottawa ON | GEN |
| Status: Country: Generator #: Approval Yrs SIC Code: SIC Descript | s: | ON5430079 As of May 2015 | | | |
| Details Waste Cod Waste Des | | 312 Pathological wastes | | | |

Map Key Number of Direction/ Elevation Site DΒ Records Distance (m) (m) ENE/83.2 77.5 265 Carling Avenue Ltd. 8 4 of 4 **GEN** 265 Carling Ave Ottawa ON K1S 2E1 PO Box Num: Status: Registered

 Status:
 Registered

 Country:
 Canada

 Generator #:
 ON2678739

 Approval Yrs:
 As of Sep 2016

SIC Code: SIC Description:

--- Details ---

Waste Code: 243 D
Waste Description: PCB

9 1 of 1 NE/95.7 77.8 WWIS

Well ID: 7220782

Construction Date:
Primary Water Use: Monitorin

Primary Water Use: Monitoring Sec. Water Use:

Final Well Status: Observation Wells

Specific Capacity:

Municipality: NEPEAN TOWNSHIP County: OTTAWA-CARLETON

Bore Hole Information

-

Bore Hole ID: 1004779141

DP2BR: Code OB:

Code OB Description:

Open Hole:

Date Completed: 07-MAY-12

 Remarks:
 18

 Zone:
 18

 East 83:
 445155

North 83: 5027756
UTMRC: 445155

UTMRC Description: margin of error : 30 m - 100 m

Location Method: wwr Org CS: UTM83

Elevation: Elevrc:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method:

Spatial Status:

Overburden and Bedrock

Materials Interval

Supplier Comment:

Formation ID: 1005172392

Layer:

General Color: BLACK

Most Common Material: Other Materials: Other Materials:

Formation Top Depth: 0 Formation End Depth: .075

Lot:

Concession: Concession Name: Easting NAD83: Northing NAD83: Zone:

UTM Reliability:

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|------------------------------|----------------------------------|----------------------------|------------------|------|----|
| Formation E | nd Depth UOM: | m | | | |
| Formation ID |): | 1005172393 | | | |
| Layer: | | 2 | | | |
| General Cold | | GREY | | | |
| Most Commo | | STONES | | | |
| Other Materi | | | | | |
| Formation To | | .075 | | | |
| Formation E | | .3 | | | |
| Formation E | nd Depth UOM: | m | | | |
| Formation ID | ١. | 1005172394 | | | |
| Layer: | /. | 3 | | | |
| General Cold | or: | BROWN | | | |
| Most Commo | | SAND | | | |
| Other Materi | | GRAVEL | | | |
| Other Materi | | FILL | | | |
| Formation To Formation E | | .3 .69 | | | |
| | nd Depth UOM: | m | | | |
| | | | | | |
| Formation ID |): | 1005172395 | | | |
| Layer: | | 4 PDOWN | | | |
| General Colo Most Commo | | BROWN SAND | | | |
| Other Materi | | GRAVEL | | | |
| Other Materi | | BOULDERS | | | |
| Formation To | | .69 | | | |
| Formation E | | 1.17 | | | |
| Formation E | nd Depth UOM: | m | | | |
| Formation ID |). | 1005172396 | | | |
| Layer: | • | 5 | | | |
| General Cold | or: | GREY | | | |
| Most Commo | | LIMESTONE | | | |
| Other Materi | | SHALE | | | |
| Other Materi Formation To | | ROCK 1.17 | | | |
| Formation E | | 15.39 | | | |
| | nd Depth UOM: | m | | | |
| | | | | | |
| | ce/Abandonment | | | | |
| Sealing Reco | ora | | | | |
| Plug ID: | | 1005172404 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | 1014 | 11.6 | | | |
| Plug Depth U | JUIVI: | m | | | |
| Method of Co Use | onstruction & Well | | | | |
| Madhadh | aturration ID | 1005170400 | | | |
| Method Cons | struction ID: struction Code: | 1005172403 7 | | | |
| Method Con | | n Diamond | | | |

Alt Name:

Method Construction: Other Method Construction:

Pipe Information

Diamond

1005172391

0

DΒ Map Key Number of Direction/ Elevation Site Records Distance (m) (m) Construction Record - Casing 1005172400 Casing ID: Layer: Open Hole or Material: **PLASTIC** 0 Depth From: Depth To: 12.4 Casing Diameter: 5 Casing Diameter UOM: cm Casing Depth UOM: m Construction Record - Screen Screen ID: 1005172401 Layer: 1 10 Slot: Screen Top Depth: 12.4 15.39 Screen End Depth: Screen Material: 5 Screen Depth UOM: m Screen Diameter UOM: cm Screen Diameter: 5.1 Water Details 1005172399 Water ID: Layer: Kind Code: 8 Kind: Untested Water Found Depth: 3.4 Water Found Depth UOM: m Hole Diameter 1005172397 Hole ID: Diameter: 20 Depth From: 0 1.17 Depth To: Hole Depth UOM: m Hole Diameter UOM: cm 1005172398 Hole ID: Diameter: 7.69 Depth From: 1.17 Depth To: 15.39 Hole Depth UOM: m Hole Diameter UOM: cm WSW/103.4 67.2 GVT. OF (OUT OF BUSINESS)ES & RESOURCES 10 1 of 7 **GEN 401 LEBRETON STREET** OTTAWA ON K1A 0E8 PO Box Num: Status: Country: Generator #: ON0269511 Approval Yrs: 00,01 SIC Code: 8172

SIC Description:

Waste Code: 148

RES. CONS./IND. DEV.

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m) Waste Description: **INORGANIC LABORATORY CHEMICALS** Waste Code: 263 ORGANIC LABORATORY CHEMICALS Waste Description: GVT. OF CAN. - ENERGY MINES & RESOURCES 10 2 of 7 WSW/103.4 67.2 **GEN 401 LEBRETON STREET** OTTAWA ON K1A 0E8 PO Box Num: Status: Country: ON0269511 Generator #: Approval Yrs: 98,99 SIC Code: 8172 SIC Description: RES. CONS./IND. DEV. --- Details ---Waste Code: 148 INORGANIC LABORATORY CHEMICALS Waste Description: Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS GVT. OF CAN. - ENERGY MINES & RES. WSW/103.4 67.2 10 3 of 7 **GEN TERRAIN SCIENCES GEOLOGICAL SURVEY 401** LEBRETON ST. OTTAWA ON K1A 0E8 PO Box Num: Status: Country: ON0269511 Generator #: Approval Yrs: 86,87,88,89,90 SIC Code: 8172 SIC Description: RES. CONS./IND. DEV. --- Details ---Waste Code: **INORGANIC LABORATORY CHEMICALS** Waste Description: Waste Code: 263 ORGANIC LABORATORY CHEMICALS Waste Description: 10 4 of 7 WSW/103.4 67.2 GVT. OF CAN. - ENERGY MINES & RES.18-270 **GEN TERRAIN SCIENCES GEOLOGICAL SURVEY 401** LEBRETON ST. OTTAWA ON K1A 0E8 PO Box Num: Status: Country: Generator #: ON0269511 Approval Yrs: 92,93,94,95,96,97 SIC Code: 8172 SIC Description: RES. CONS./IND. DEV. --- Details ---Waste Code: 148 INORGANIC LABORATORY CHEMICALS Waste Description: Waste Code: ORGANIC LABORATORY CHEMICALS Waste Description:

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|----------------------|-----------------------------|------------------|--|------|
| <u>10</u> | 5 of 7 | WSW/103.4 | 67.2 | Quantum Murray LP 401 Lebreton Street Ottawa ON | GEN |
| PO Box Nun Status: Country: Generator # Approval Yr SIC Code: SIC Descrip | : :s: | ON6291713 2011 339990 | | | |
| <u>10</u> | 6 of 7 | WSW/103.4 | 67.2 | ENERGY MINES AND RESOURCES TERRAIN SCIENCES DIVISION 401 LIBRETON ST. OTTAWA ON | ОРСВ |
| Year: Site Number Name Owne Additional S | | 1992 40289A013 | | | |
| <u>10</u> | 7 of 7 | WSW/103.4 | 67.2 | TERRAPRO CORPORATION 401-A LEBRETON STREET SOUTH OTTAWA ON K1S 4L5 | PES |
| Licence No. Licence Typ | | | | | |
| <u>11</u> | 1 of 2 | ESE/106.5 | 74.2 | BLACK & MCDONALD LIMITED 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4 | GEN |
| PO Box Nun | n: | | | | |
| Status: Country: | | | | | |
| Generator # | : | ON0264002 | | | |
| Approval Yr | s: | 98 | | | |
| SIC Code: SIC Descrip | tion: | 4261 ELECTRIAL WORK | | | |
| Details | | | | | |
| Waste Cod Waste Des | | 251 OIL SKIMMINGS & | SLUDGES | | |
| <u>11</u> | 2 of 2 | ESE/106.5 | 74.2 | BLACK & MCDONALD LIMITED 05-619 557 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4J4 | GEN |
| PO Box Num Status: Country: | n: | | | | |
| Generator # | | ON0264002 | | | |
| Approval Yr SIC Code: | rs: | 92,93,94,95,96,97 4261 | | | |
| SIC Code: SIC Descrip | tion: | ELECTRIAL WORK | | | |
| Details | | 054 | | | |
| Waste Cod Waste Des | | 251 OIL SKIMMINGS & | SLUDGES | | |
| | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---------------------------------|----------------------|----------------------------|------------------|---|-----|
| 12 | 1 of 13 | ENE/108.3 | 77.2 | 265 Carling Avenue Ottawa ON K1S 2E1 | EHS |
| Postal Code: | | | | | |
| City: Address2: Address1: | | | | | |
| Provstate: Order No.: | | 20120830060 | | | |
| Addit. Info Ord | dered: | 20120030000 | | | |
| Report Date: | | 31-AUG-12 | | | |
| Report Type: Search Radius | s (km): | Site Report .25 | | | |
| Search Radius | s (kiii). | .23 | | | |
| <u>12</u> | 2 of 13 | ENE/108.3 | 77.2 | 265 Carling Ave Ottawa ON K1S 2E1 | EHS |
| Postal Code: | | | | | |
| City: | | | | | |
| Address2: Address1: | | | | | |
| Provstate: | | | | | |
| Order No.: | | 20120330051 | | | |
| Addit. Info Ord Report Date: | dered: | 4/11/2012 4:45:31 | PM | | |
| Report Type: | | Standard Report | | | |
| Search Radius | s (<i>km</i>): | 0.25 | | | |
| 12 | 3 of 13 | ENE/108.3 | 77.2 | Taggart Corporation 265 Carling Ave Ottawa ON K1S 2E1 | GEN |
| PO Box Num: | | | | | |
| Status: | | | | | |
| Country: | | | | | |
| Generator #: Approval Yrs: | | ON2678739 2009 | | | |
| SIC Code: | | 531310 | | | |
| SIC Description | on: | Real Estate Proper | ty Managers | | |
| Details | | | | | |
| Waste Code. | | 243 | | | |
| Waste Desci | ription: | PCBS | | | |
| 12 | 4 of 13 | ENE/108.3 | 77.2 | 265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1 | GEN |
| PO Box Num: Status: | | | | | |
| Country: | | ON0070700 | | | |
| Generator #: Approval Yrs: | | ON2678739 2011 | | | |
| SIC Code: | | 531310 | | | |
| SIC Description | on: | Real Estate Proper | ty Managers | | |
| Details | | | | | |
| | | | | | |
| Waste Code. Waste Descr | | 243 PCBS | | | |

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|----------------------|--|------------------|---|-----|
| <u>12</u> | 5 of 13 | ENE/108.3 | 77.2 | 265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1 | GEN |
| PO Box Nun | n: | | | | |
| Status: Country: | | | | | |
| Generator #. | • | ON2678739 | | | |
| Approval Yr | | 2010 | | | |
| SIC Code: | | 531310 | | | |
| SIC Descrip | tion: | Real Estate Proper | ty Managers | | |
| Details | | | | | |
| Waste Cod | de: | 243 | | | |
| Waste Des | scription: | PCBS | | | |
| <u>12</u> | 6 of 13 | ENE/108.3 | 77.2 | 265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1 | GEN |
| PO Box Nun Status: | n: | | | | |
| Country: | | ON10070700 | | | |
| Generator #. Approval Yr. | | ON2678739 2012 | | | |
| SIC Code: | J. | 531310 | | | |
| SIC Descrip | tion: | Real Estate Proper | ty Managers | | |
| Details Waste Cod | le: | 243 | | | |
| Waste Des | scription: | PCBS | | | |
| <u>12</u> | 7 of 13 | ENE/108.3 | 77.2 | 265 Carling Avenue Ltd. 265 Carling Ave Ottawa ON K1S 2E1 | GEN |
| PO Box Nun | n· | | | | |
| Status: | •• | | | | |
| Country: | | | | | |
| Generator #. | | ON2678739 | | | |
| Approval Yr. SIC Code: | S: | As of May 2015 | | | |
| SIC Code. | tion: | | | | |
| Details | | | | | |
| Waste Cod | | 243 | | | |
| Waste Des | scription: | PCB | | | |
| 12 | 8 of 13 | ENE/108.3 | 77.2 | Taggart Corporation 265 Carling Ave Ottawa ON K1S 2E1 | GEN |
| PO Box Nun Status: Country: Generator #. Approval Yr. SIC Code: SIC Descript | : s: | ON2678739 07,08 531310 Real Estate Proper | tv Managers | | |
| | | | , -9 | | |
| Details | | 242 | | | |
| Waste Cod Waste Des | | 243 PCB'S | | | |
| | | . 02 0 | | | |
| | | | | | |

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|----------------------|-------------------------------|--------------------|--|-----|
| 12 | 9 of 13 | ENE/108.3 | 77.2 | Nortak Software Ltd. 265 Carling Ave Floor 7 Ottawa ON K1S 2E1 | SCT |
| Established Plant Size (f Employmen | t²): | 1975 16000 | | | |
| Details Descriptio SIC/NAICS + | n: | Manufacturing and I 334610 | Reproducing Mag | netic and Optical Media | |
| Descriptio SIC/NAICS | | Software Publishers 511210 | 3 | | |
| 12 | 10 of 13 | ENE/108.3 | 77.2 | Assn Faculties Medicine of Cda 265 Carling Ave Suite 800 Ottawa ON K1S 2E1 | SCT |
| Established Plant Size (f Employmen | t²): | 01-JAN-43 | | | |
| Details Descriptio SIC/NAICS | n: | Professional Organi 813920 | zations | | |
| Descriptio SIC/NAICS | | Professional Organi 813920 | zations | | |
| 12 | 11 of 13 | ENE/108.3 | 77.2 | NORTAK SOFTWARE LTD 265 CARLING AVE FLOOR 7 OTTAWA ON K1S 2E1 | SCT |
| Established | | 1975 | | | |
| Plant Size (f Employmen | | 0 55 | | | |
| Details Descriptio SIC/NAICS | - on: | MAGNETIC AND O 3695 | PTICAL RECORE | DING MEDIA | |
| 12 | 12 of 13 | ENE/108.3 | 77.2 | Beyond 20/20 Inc. 265 Carling Ave Suite 500 Ottawa ON K1S 2E1 | SCT |
| Established Plant Size (f Employmen | t²): | 01-OCT-87 | | | |
| Details Descriptio SIC/NAICS + | n: | Computer Systems 541510 | Design and Relat | ed Services | |
| Descriptio SIC/NAICS | | Data Processing, He 518210 | osting, and Relate | ed Services | |
| + Descriptio SIC/NAICS | | Software Publishers 511210 | 3 | | |
| <u>12</u> | 13 of 13 | ENE/108.3 | 77.2 | Cdn Post-M.D. Education Regist | SCT |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--|---|------------------|--|-----|
| | | | | 265 Carling Ave Suite 800 Ottawa ON K1S 2E1 | |
| Established: Plant Size (fi Employment | ¹²): | 01-MAY-86 | | | |
| Details Description SIC/NAICS | n: | Periodical Publishe 511120 | ers | | |
| + Description SIC/NAICS | | Other Publishers 511190 | | | |
| <u>13</u> | 1 of 1 | NNW/108.8 | 77.7 | PUC POLE TRANSFORMER OPPOSITE 326 POWELL STREET. OTTAWA CITY ON K1S 2A8 | SPL |
| Ref NO: Contaminan | | 4411 | | | |
| Contaminan Contaminan Incident Cau Incident Dt: Incident Rea Incident Sun MOE Report Environmen | t Quantity: se: son: nmary: ed Dt: | OTHER TRANSPO 5/29/1988 UNKNOWN OTTAWA HYDRO- 5/29/1988 | | ENT GFORMER OIL (CHLORIN-OIL TEST NEGATIVE)TO GRND | |
| Nature of Im Receiving M SAC Action | pact: edium: Class: | LAND | | | |
| Sector Source Site Municip | | 20101 | | | |
| 14 | 1 of 6 | NNE/113.1 | 76.3 | 515 Cambridge Street Ottawa ON K1S 4H9 | EHS |
| Postal Code City: Address2: Address1: Provstate: | . | | | | |
| Order No.: Addit. Info O | rdered: | 20020116001 | | | |
| Report Date: | | 1/24/02 | | | |
| Report Type Search Radi | | Complete Report 0.25 | | | |
| <u>14</u> | 2 of 6 | NNE/113.1 | 76.3 | 515 Cambridge St Ottawa ON K1S 4H9 | EHS |
| Postal Code City: Address2: Address1: Provstate: | : | | | | |
| Order No.: Addit. Info C Report Date: | | 20020211009 Title Search 2/11/02 | | | |
| Report Type Search Radi | : | Custom Report 0.25 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|----------------------|--|------------------|---|-----|
| <u>14</u> | 3 of 6 | NNE/113.1 | 76.3 | OTTAWA-CARLETON DISTRICT SCHOOL BOARD BORDEN HIGH SCHOOL 515 CAMBRIDGE STREET SOUTH OTTAWA ON K1S 4H9 | GEN |
| PO Box Nun | n: | | | | |
| Status: | | | | | |
| Country: Generator #: | - | ON0375202 | | | |
| Approval Yr | | 98,99,00,02,03,04 | | | |
| SIC Code: | | 8511 | | | |
| SIC Descript | tion: | ELEMT./SECON. E | DUC. | | |
| Details | | | | | |
| Waste Cod | | 148 | | | |
| Waste Des | scription: | INORGANIC LABO | RATORY CHEMIC | CALS | |
| + | | 050 | | | |
| Waste Cod Waste Des | | 252 WASTE OILS & LU | IBRICANTS | | |
| + | сприоп. | WASTE OILS & LC | DICIOANTO | | |
| Waste Cod | | 263 | | | |
| Waste Des | scription: | ORGANIC LABOR | ATORY CHEMICA | LS | |
| 14 | 4 of 6 | NNE/113.1 | 76.3 | OTTAWA BOARD OF EDUCATION 29-129 BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9 | GEN |
| PO Box Num Status: Country: Generator #. Approval Yr. SIC Code: SIC Descript | : s: | ON0375202 94,95,96 8511 ELEMT./SECON. E | EDUC. | | |
| Details | | | | | |
| Waste Cod Waste Des | | 148 INORGANIC LABO | RATORY CHEMIC | CALS | |
| + Waste Cod Waste Des | | 252 WASTE OILS & LU | JBRICANTS | | |
| + Waste Cod Waste Des | | 263 ORGANIC LABOR | ATORY CHEMICA | ils | |
| <u>14</u> | 5 of 6 | NNE/113.1 | 76.3 | OTTAWA BOARD OF EDUCATION 515 CAMBRIDGE STREET SOUTH BORDEN HIGH SCHOOL OTTAWA ON K1S 4H9 | GEN |
| PO Box Nun Status: Country: | n: | | | | |
| Generator #: | | ON0375202 | | | |
| Approval Yr | s: | 92,93,97 | | | |
| SIC Code: | tion: | 8511 ELEMT./SECON. E | EDLIC | | |
| SIC Descript | uon. | ELLIVIT./SECON. E | .000. | | |
| Details | | 4.40 | | | |
| Waste Cod | ie: | 148 | | | |

Number of Direction/ Site DΒ Map Key Elevation Records Distance (m) (m) Waste Description: **INORGANIC LABORATORY CHEMICALS** Waste Code: 252 WASTE OILS & LUBRICANTS Waste Description: Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS NNE/113.1 76.3 OTTAWA BOARD OF EDUCATION 14 6 of 6 **GEN** BORDEN HIGH SCHOOL 515 CAMBRIDGE ST. S. C/O 330 GILMOURST OTTAWA ON K2P 0P9 PO Box Num: Status: Country: Generator #: ON0375202 Approval Yrs: 86,87,88,89,90 SIC Code: 8511 SIC Description: ELEMT./SECON. EDUC. --- Details ---Waste Code: 148 **INORGANIC LABORATORY CHEMICALS** Waste Description: Waste Code: WASTE OILS & LUBRICANTS Waste Description: Waste Code: 263 Waste Description: ORGANIC LABORATORY CHEMICALS 15 1 of 1 ESE/123.0 76.1 774 Bronson Ave **EHS** Ottawa ON K1S4G4 Postal Code: K1S4G4 City: Ottawa Address2: Address1: 774 Bronson Ave Provstate: ON Order No.: 20151124079 Aerial Photos Addit. Info Ordered: 01-DEC-15 Report Date: Report Type: RSC Report (Urban) Search Radius (km): .3 16 1 of 9 W/128.5 69.4 DEPT. OF NATIONAL DEFENSE **GEN MAPPING & CHARTING ESTABLISHMENT 360** LEBRETON STREET OTTAWA ON K1A 0E9 PO Box Num: Status: Country: ON0046565 Generator #: Approval Yrs: 98,99,00,01,04,05,06,07,08 SIC Code: 8111 SIC Description: **DEFENCE SERVICES** --- Details ---Waste Code: Waste Description: ALIPHATIC SOLVENTS

Order No: 20161003159

Waste Code:

 Map Key
 Number of Records
 Direction/ Distance (m) (m)
 Elevation (m)
 Site

 Waste Description:
 ALIPHATIC SOLVENTS

+

Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

+

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

+

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

Waste Code:

Waste Description: ACID WASTE - HEAVY METALS

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

т

Waste Code: 113

Waste Description: ACID WASTE - OTHER METALS

+

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 26

Waste Description: PHOTOPROCESSING WASTES

+

Waste Code: 265

Waste Description: GRAPHIC ART WASTES

16 2 of 9 W/128.5 69.4 DEPT. OF NATIONAL DEFENSE

MAPPING & CHARTING ESTABLISHMENT 360

LEBRETON STREET

OTTAWA ON

PO Box Num:

Status: Country:

 Generator #:
 ON0046565

 Approval Yrs:
 2013

 SIC Code:
 911110

SIC Description:

--- Details ---

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

+

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

+

Waste Code: 12

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

Waste Code: 331

GEN

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|--|--|------------------|---|-----|
| Waste Descr | ription: | WASTE COMPRES | SED GASES | | |
| + Waste Code: Waste Descr | | 252 WASTE OILS & LUE | BRICANTS | | |
| + Waste Code: Waste Descr | | 264 PHOTOPROCESSIN | NG WASTES | | |
| + Waste Code: Waste Descr + | | 122 ALKALINE WASTES | S - OTHER METALS | | |
| Waste Code: Waste Descr | | 145 PAINT/PIGMENT/CO | DATING RESIDUES | | |
| Waste Code: Waste Descr | | 213 PETROLEUM DISTI | LLATES | | |
| Waste Code Waste Descr + | | 241 HALOGENATED SC | DLVENTS | | |
| Waste Code: Waste Descr + | | 146 OTHER SPECIFIED | INORGANICS | | |
| | Waste Code: 263 Waste Description: ORGANIC LABORATORY CHEMICAL | | | | |
| | Waste Code: 113 Waste Description: ACID WASTE - OTHER METALS | | | | |
| Waste Code: Waste Descr | | 265 GRAPHIC ART WAS | STES | | |
| <u>16</u> | 3 of 9 | W/128.5 | 69.4 | GVT OF CAN - NATIONAL DEFENSE MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET OTTAWA ON K1A 0E9 | GEN |
| PO Box Num: | | | | | |
| Status: Country: Generator #: Approval Yrs: SIC Code: SIC Descriptio | | ON0046565 92,93,97 8111 DEFENCE SERVICE | ΞS | | |
| Details Waste Code: Waste Descr | | 113 ACID WASTE - OTH | IER METALS | | |
| + Waste Code: Waste Descr | | 211 AROMATIC SOLVE | NTS | | |
| + Waste Code: Waste Descr + | | 252 WASTE OILS & LUE | BRICANTS | | |
| Waste Code: Waste Descr | | 264 PHOTOPROCESSIN | NG WASTES | | |
| Waste Code: Waste Descr | | 265 GRAPHIC ART WAS | STES | | |
| <u>16</u> | 4 of 9 | W/128.5 | 69.4 | DEPT. OF NATIONAL DEFENSE MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET | GEN |

Number of Direction/ Elevation Site DΒ Map Key

Records Distance (m)

(m)

PO Box Num:

Status: Country: Generator #:

ON0046565 2010 Approval Yrs: SIC Code: 911110 SIC Description: **Defence Services**

--- Details ---Waste Code: 113

ACID WASTE - OTHER METALS Waste Description:

Waste Code:

Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

Waste Description: WASTE COMPRESSED GASES

Waste Code:

AROMATIC SOLVENTS Waste Description:

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

Waste Code:

HALOGENATED SOLVENTS Waste Description:

Waste Code:

Waste Description: OTHER SPECIFIED INORGANICS

Waste Code:

Waste Description: **GRAPHIC ART WASTES**

PETROLEUM DISTILLATES Waste Description:

264

Waste Description: PHOTOPROCESSING WASTES

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code:

PAINT/PIGMENT/COATING RESIDUES Waste Description:

DEPT. OF NATIONAL DEFENSE 5 of 9 W/128.5 69.4

MAPPING & CHARTING ESTABLISHMENT 360

LEBRETON STREET

OTTAWA ON K1A 0E9

PO Box Num: Status:

Country: Generator #:

ON0046565 Approval Yrs: 2012 911110 SIC Code:

OTTAWA ON

Waste Code:

Waste Code:

16

GEN

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

SIC Description: Defence Services

--- Details ---

Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

. Waste Code:

Waste Code. 204

Waste Description: PHOTOPROCESSING WASTES

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

+

Waste Code: 331

Waste Description: WASTE COMPRESSED GASES

+

Waste Code: 265

Waste Description: GRAPHIC ART WASTES

+

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

T

Waste Code: 113

Waste Description: ACID WASTE - OTHER METALS

+

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

+

Waste Code: 21

Waste Description: PETROLEUM DISTILLATES

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

16 6 of 9 W/128.5 69.4 DEPT. OF NATIONAL DEFENSE

MAPPING & CHARTING ESTABLISHMENT 360

LEBRETON STREET

OTTAWA ON

PO Box Num:

Status: Country:

 Generator #:
 ON0046565

 Approval Yrs:
 2011

 SIC Code:
 911110

SIC Description: Defence Services

--- Details ---

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

+

GEN

Number of Direction/ Site DΒ Map Key Elevation Records Distance (m) 331 Waste Code: Waste Description: WASTE COMPRESSED GASES Waste Code: Waste Description: OTHER SPECIFIED INORGANICS Waste Code: Waste Description: PAINT/PIGMENT/COATING RESIDUES Waste Code: 264 Waste Description: PHOTOPROCESSING WASTES Waste Code: Waste Description: HALOGENATED SOLVENTS Waste Code: Waste Description: ACID WASTE - OTHER METALS Waste Code: Waste Description: AROMATIC SOLVENTS Waste Code: Waste Description: ALKALINE WASTES - OTHER METALS Waste Code: 252 WASTE OILS & LUBRICANTS Waste Description: Waste Code: ALIPHATIC SOLVENTS Waste Description: Waste Code: **GRAPHIC ART WASTES** Waste Description: Waste Code: Waste Description: ACID WASTE - HEAVY METALS 16 7 of 9 W/128.5 69.4 DEPT. OF NATIONAL DEFENSE **GEN MAPPING & CHARTING ESTABLISHMENT 360 LEBRETON STREET** OTTAWA ON K1A 0E9 PO Box Num: Status: Country: ON0046565 Generator #: Approval Yrs: As of May 2015 SIC Code: SIC Description: --- Details ---Waste Code: Photoprocessing wastes Waste Description:

Order No: 20161003159

Waste Code:

Waste Description: Waste crankcase oils and lubricants

Waste Code:

Waste Description: Acid solutions - containing heavy metals

Waste Code: 265

Waste Description: Graphic arts wastes

Waste Code:

Waste Description: Halogenated solvents and residues

Number of Direction/ Site DΒ Map Key Elevation Records Distance (m) (m)

121 Waste Code:

Waste Description: Alkaline slutions - containing heavy metals

Waste Code:

Waste Description: Petroleum distillates

Waste Code:

Waste Description: Misc. waste organic chemicals

Waste Code: 146

Waste Description: Other specified inorganic sludges, slurries or solids

Waste Code:

Waste Description: Aliphatic solvents and residues

Waste Code: 331

Waste Description: Waste compressed gases including cylinders

Waste Code: 145

Waste Description: Wastes from the use of pigments, coatings and paints

DEPT. OF NATIONAL DEFENSE 16 8 of 9 W/128.5 69.4

MAPPING & CHARTING ESTABLISHMENT 360

GEN

Order No: 20161003159

LEBRETON STREET

OTTAWA ON

PO Box Num:

Status: Country:

ON0046565 Generator #: Approval Yrs: 2009 SIC Code: 911112

SIC Description:

--- Details ---

Waste Code:

ACID WASTE - HEAVY METALS Waste Description:

Waste Code:

Waste Description: ACID WASTE - OTHER METALS

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code:

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code:

OTHER SPECIFIED INORGANICS Waste Description:

Waste Code:

Waste Description: AROMATIC SOLVENTS

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

Waste Code:

HALOGENATED SOLVENTS Waste Description:

| Мар Кеу | Number Records | | Direction/ Distance (m) | Elevation (m) | Site | | DB |
|--|-------------------|----------|---|------------------|---|--|------|
| Waste Cod Waste Desc | | | 252 WASTE OILS & LU | JBRICANTS | | | |
| + Waste Cod Waste Desc | | | 264 PHOTOPROCESS | ING WASTES | | | |
| Waste Cod | | | 265 GRAPHIC ART WA | ASTES | | | |
| <u>16</u> | 9 of 9 | | W/128.5 | 69.4 | GVT OF CAN - NATION MAPPING & CHARTING LEBRETON STREET OTTAWA ON K1A 0E9 | AL DEFENSE 17-505 S ESTABLISHMENT 360 | GEN |
| PO Box Num |) <i>:</i> | | | | | | |
| Status: Country: Generator #: Approval Yrs SIC Code: SIC Descript | s: | | ON0046565 94,95,96 8111 DEFENCE SERVIC | CES | | | |
| Details Waste Cod Waste Desc + | | | 113 ACID WASTE - OT | HER METALS | | | |
| Waste Code Waste Desc | | | 211 AROMATIC SOLV | ENTS | | | |
| Waste Cod Waste Desc | | | 252 WASTE OILS & LU | JBRICANTS | | | |
| Waste Cod Waste Desc | | | 264 PHOTOPROCESS | ING WASTES | | | |
| + Waste Cod Waste Desc | | | 265 GRAPHIC ART WA | ASTES | | | |
| <u>17</u> | 1 of 1 | | WSW/133.5 | 66.2 | ON | | BORE |
| Borehole ID: Use: | | 613085 | | | Type: Status: | Borehole | |
| Drill Method: Easting: Location Acc | | 444931 | | | UTM Zone: Northing: Orig. Ground Elev m: | 18 5027622 64 | |
| Elev. Reliabil Total Depth r Township: | lity Note: | -999 | | | DEM Ground Elev m: Primary Name: Concession: | 66.4 | |
| Lot: Completion L Primary Wate | | | | | Municipality: Static Water Level: Sec. Water Use: | -999.9 | |
| Details | | | | | | | |
| Stratum ID: | | 21839362 | 26 | | Top Depth(m): | 0.0 | |
| Bottom Dep | pth(m): | 2.1 | | | Stratum Desc: | GRAVEL. COMPACT. | |
| + | | | | | | | |
| Stratum ID: | | 21839362 | 27 | | Top Depth(m): | 2.1 CBAVEL | |
| Bottom De _l | ριn(m): | 2.4 | | | Stratum Desc: | GRAVEL. | |
| Stratum ID: | : | 21839362 | 28 | | Top Depth(m): | 2.4 | |

| Мар Кеу | Number of Records | of Direction/ Distance (m) | Elevation (m) | Site | 1 | DB |
|--|-------------------|--|----------------------|--|--|----|
| Bottom Dep | oth(m): | 5.5 | | Stratum Desc: | SAND. COMPACT. | |
| Stratum ID: | | 218393629 | | Top Depth(m): | 5.5 | |
| Bottom Dep | oth(m): | | | Stratum Desc: | BEDROCK. 80.3 FEET.GRAVEL. COMPACT. SAND. FIRM. GRAVEL. BEDROCK. 025 012 00075 | |
| <u>18</u> | 1 of 1 | ENE/136.9 | 76.8 | 256 Carling Avenue Ottawa ON K1S 2E1 | EH | ıs |
| Postal Code: City: Address2: Address1: Provstate: | | | | | | |
| Order No.: Addit. Info Or Report Date: | | 20060222007 Fire Insur. Maps ar 3/2/2006 | nd/or Site Plans; Ci | ty Directory | | |
| Report Type: Search Radiu | | Complete Report 0.25 | | | | |
| <u>19</u> | 1 of 11 | E/136.9 | 76.6 | 770 Bronson Ave Ottawa ON K1S4G4 | EH | ıs |
| Postal Code: | | K1S4G4 | | | | |
| City: Address2: | | Ottawa | | | | |
| Address2: Address1: | | 770 Bronson Ave | | | | |
| Provstate: | | ON | | | | |
| Order No.: Addit. Info Or | rdorod: | 20150512018 City Directory | | | | |
| Report Date: | uereu. | 19-MAY-15 | | | | |
| Report Type: | | Standard Report | | | | |
| Search Radiu | is (km): | .25 | | | | |
| <u>19</u> | 2 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTER 770 BRONSON AV OTTAWA ON K1S 4G4 | EX | (P |
| Instance ID: TSSA Program Maximum Hat Facility Type: Expired Date: | zard Rank: | 7/17/1996 | | | | |
| Instance Num Instance Type | nber: | 9555979 FS Facility | | | | |
| Status: Description: | | EXPIRED | | | | |
| <u>19</u> | 3 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTER 770 BRONSON AV OTTAWA ON K1S 4G4 | EX | (P |
| Instance ID: TSSA Progra Maximum Ha | zard Rank: | | | | | |
| Facility Type: Expired Date: Instance Num | . | 7/17/1996 11326332 | | | | |

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|---|---|------------------|--|-----|
| Instance Typ Status: Description: | | FS Liquid Fuel Tank EXPIRED | | | |
| <u>19</u> | 4 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra Maximum Ha Facility Type Expired Date Instance Nui Instance Typ Status: Description: | azard Rank: e: e: mber: pe: | 7/17/1996 11326312 FS Liquid Fuel Tank EXPIRED | | | |
| <u>19</u> | 5 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra Maximum Ha Facility Type Expired Date Instance Nur Instance Typ Status: Description: | azard Rank: e: e: mber: pe: | FS Liquid Fuel Tank 7/17/1996 11326332 FS Liquid Fuel Tank EXPIRED FS Gasoline Station | | | |
| <u>19</u> | 6 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra Maximum Ha Facility Type Expired Date Instance Nui Instance Typ Status: Description: | azard Rank: e: e: mber: pe: | 7/17/1996 11326353 FS Liquid Fuel Tank EXPIRED | | | |
| <u>19</u> | 7 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra Maximum Ha Facility Type Expired Date Instance Nui Instance Typ Status: Description: | azard Rank: e: e: mber: pe: | FS Liquid Fuel Tank 7/17/1996 11326353 FS Liquid Fuel Tank EXPIRED FS Gasoline Station | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|-------------------------------|---|------------------|--|-----|
| <u>19</u> | 8 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra Maximum Ha Facility Type Expired Date | am Area: azard Rank: e: | 7/17/1996 | | | |
| Instance Nui Instance Typ Status: Description: | oe: | 10901584 FS Liquid Fuel Tank EXPIRED | | | |
| <u>19</u> | 9 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON | EXP |
| Instance ID: TSSA Progra Maximum Ha Facility Type Expired Date | am Area: azard Rank: e: | 11548 | | | |
| Instance Nu | mber: | 10075444 | | | |
| Instance Typ Status: | pe: | FS Facility EXPIRED | | | |
| Description: | ; | FS Propane Cylr Ha | ndling Facility | | |
| <u>19</u> | 10 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra Maximum Ha | am Area: | | | | |
| Facility Type Expired Date Instance Nul Instance Typ | e: e: mber: | FS Liquid Fuel Tank 7/17/1996 11326312 FS Liquid Fuel Tank | | | |
| Status: Description: | | EXPIRED FS Gasoline Station | | | |
| <u>19</u> | 11 of 11 | E/136.9 | 76.6 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | EXP |
| Instance ID: TSSA Progra | | | | | |
| Maximum Ha Facility Type | | FS Liquid Fuel Tank | | | |
| Expired Date | e: | 7/17/1996 | | | |
| Instance Nul Instance Typ | | 10901584 FS Liquid Fuel Tank | | | |
| Status: | | EXPIRED | | | |
| Description: | | FS Gasoline Station | - ruii Serve | | |

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|----------------------|------------------------------------|------------------|--|-----|
| <u>20</u> | 1 of 3 | E/139.1 | 76.5 | 770 Bronson Avenue Ottawa ON K1S 4G4 | EHS |
| Postal Code: City: Address2: Address1: Provstate: | | | | | |
| Order No.: Addit. Info O | rdarad: | 20100203003 | | | |
| Report Date: | | 2/9/2010 | | | |
| Report Type: Search Radiu | | Custom Report 0.25 | | | |
| 20 | 2 of 3 | E/139.1 | 76.5 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S4G4 | PRT |
| Location ID: Type: | | 10887 retail 1995-04-30 | | | |
| Expiry Date: Capacity (L): | | 0 | | | |
| Licence #: | | 0076416510 | | | |
| <u>20</u> | 3 of 3 | E/139.1 | 76.5 | EMILIO LINDIA ENTERPRISES LTD 770 BRONSON AV OTTAWA ON K1S 4G4 | PRT |
| Location ID: Type: Expiry Date: Capacity (L): | | 10887 retail 1995-07-31 0 | | | |
| Licence #: | | 0023005001 | | | |
| <u>21</u> | 1 of 1 | ESE/156.0 | 74.9 | 786 Bronson Ave Ottawa ON K1S4G4 | EHS |
| Postal Code: | | K1S4G4 | | | |
| City: Address2: | | Ottawa | | | |
| Address1: Provstate: | | 786 Bronson Ave ON | | | |
| Order No.: | | 20150721049 | | | |
| Addit. Info Ole Report Date: | | 23-JUL-15 | | | |
| Report Type: Search Radiu | | Custom Report .25 | | | |
| | | | | | |
| <u>22</u> | 1 of 2 | ENE/159.6 | 76.3 | Bronson Ave and Carling Ave Ottawa ON | SPL |
| Ref NO: Contaminant | Codor | 2440-5SQ73H 12 | | | |
| Contaminant Contaminant | | GASOLINE | | | |
| Contaminant Incident Caus | | 1 L | | | |
| Incident Dt: | | 10/26/2003 | | | |
| Incident Reas | | Ottawa:MVA, ukn v | ol gas to sewers | | |
| | | | 340 10 0011010 | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--|---|------------------------|---|-----|
| MOE Reporte Environment Nature of Imp Receiving Me SAC Action (| tal Impact: pact: edium: Class: | 10/26/2003 Possible Surface Water Pollu Water | ution | | |
| Sector Source Site Municipa | | Ottawa | | | |
| <u>22</u> | 2 of 2 | ENE/159.6 | 76.3 | OTTAWA HYDRO CORNER OF CARLING & BRONSON OTTAWA TRANSFORMER OTTAWA CITY ON | SPL |
| Ref NO: Contaminant Contaminant Contaminant Incident Cau | t Name: t Quantity: | 58100 COOLING SYSTEM | AI FAK | | |
| Incident Dt: Incident Real Incident Seal MOE Reporte Environment Nature of Imp Receiving Me SAC Action (Sector Source | son: nmary: ed Dt: tal Impact: pact: edium: Class: | 10/2/1991 INTENTIONAL/PLA | ANNED 14L NON-PCBTR | ANSFORMER OIL TO GROUND& STORM SEWER. | |
| Site Municipa | | 20101 | | | |
| <u>23</u> | 1 of 1 | NNE/160.5 | 74.3 | Goodex Equipment Rental Ltd 515 Cambridge St. Ottawa ON | GEN |
| PO Box Num Status: Country: Generator #: Approval Yrs SIC Code: SIC Descript | 5 : | ON4691226 03,04 | | | |
| <u>24</u> | 1 of 1 | NW/161.0 | 73.1 | 345 Lebreton Street Ottawa ON K1A 0E9 | EHS |
| Postal Code: City: Address2: Address1: Provstate: | • | | | | |
| Order No.: Addit. Info O Report Date: Report Type: Search Radiu | | 20120416027 4/25/2012 2:58:08 I Standard Report 0.25 | PM | | |
| 25 | 1 of 1 | N/168.9 | 76.0 | 315 Powell Avenue <unofficial> Ottawa ON</unofficial> | SPL |
| Ref NO: | | 1740-887H2U | | | |

DB Number of Direction/ Elevation Site Map Key Records Distance (m) (m) Contaminant Code: 15 Contaminant Name: HYDRAULIC OIL Contaminant Quantity: 30 L Incident Cause: Pipe Or Hose Leak Incident Dt: Incident Reason: **Equipment Failure** Incident Summary: Hydraulic oil spill to 315 Powell Avenue. MOE Reported Dt: 8/10/2010 **Environmental Impact:** Not Anticipated Nature of Impact: Surface Water Pollution Receiving Medium: SAC Action Class: Land Spills Motor Vehicle Sector Source Type: Site Municipality: 26 1 of 1 NE/173.2 75.5 R.M. OF OTTAWA-CARLETON CA CLEMOW AVE/BRONSON AVE/BANK ST **OTTAWA CITY ON** 7-0438-95-Certificate #: Application Year: 95 Issue Date: 6/2/1995 Municipal water Approval Type: Approved Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: **Emission Control: 27** 1 of 1 NNW/174.9 76.3 482 Cambridge St S **EHS** Ottawa ON K1S4H7 Postal Code: K1S4H7 City: Ottawa Address2: Address1: 482 Cambridge St S Provstate: ON Order No.: 20160311139 Addit. Info Ordered: City Directory Report Date: 18-MAR-16 Report Type: Standard Report Search Radius (km): .25 28 1 of 1 WSW/176.9 65.0 **WWIS** Ottawa ON Well ID: 7122535 Lot: **Construction Date:** Concession: Primary Water Use: Monitoring **Concession Name:** Sec. Water Use: Easting NAD83: Test Hole Northing NAD83: Final Well Status: Specific Capacity: Zone: **OTTAWA CITY** UTM Reliability: Municipality: County: **OTTAWA-CARLETON**

Order No: 20161003159

Bore Hole Information

| Map Key | Number of | Direction/ | Elevation | Site | DB |
|------------------------------|-----------------------------------|----------------------|-----------|------|----|
| | Records | Distance (m) | (m) | | |
| Bore Hole ID | | 1002420733 | | | |
| DP2BR: Code OB: | | | | | |
| Code OB: | scription: | | | | |
| Open Hole: | - | | | | |
| Date Comple Remarks: | ted: | 10-MAR-09 | | | |
| Zone: | | 18 | | | |
| East 83: | | 444946 | | | |
| North 83: UTMRC: | | 5027605 4 | | | |
| UTMRC Desc | ription: | margin of error : 30 | m - 100 m | | |
| Location Met | • | wwr | | | |
| Org CS: | | UTM83 | | | |
| Elevation: Elevrc: | | 65.97 | | | |
| Elevrc Descr | iption: | | | | |
| Location Sou | | | | | |
| | sion Comment: Location Source: | | | | |
| | Location Method: | | | | |
| Supplier Con | | | | | |
| Spatial Statu | S: | | | | |
| Overburden a | and Bedrock | | | | |
| Materials Inte | erval | | | | |
| Formation ID | <i>:</i> | 1002757770 | | | |
| Layer: | | 1 | | | |
| General Colo | | BROWN SAND | | | |
| Most Commo | | SAND | | | |
| Other Materia | als: | TOPSOIL | | | |
| Formation To | | 0 .6 | | | |
| Formation En | nd Depth UOM: | .o m | | | |
| | - | | | | |
| Formation ID Layer: | : | 1002757771 2 | | | |
| General Colo | r: | BROWN | | | |
| Most Commo | | FILL | | | |
| Other Materia Other Materia | | | | | |
| Formation To | | .6 | | | |
| Formation En | nd Depth: | 4.2 | | | |
| Formation Er | nd Depth UOM: | m | | | |
| Formation ID | <i>:</i> | 1002757772 | | | |
| Layer: | | 3 | | | |
| General Colo | | GREY LIMESTONE | | | |
| Other Materia | | | | | |
| Other Materia | | ROCK | | | |
| Formation To Formation En | | 4.2 8.8 | | | |
| | nd Depth UOM: | m | | | |
| | | | | | |
| Annular Space Sealing Reco | ce/Abandonment ord | | | | |
| | | | | | |

1002757775

1 0 .6 m

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

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|------------------------------|----------------------|----------------------------|------------------|------|----|
| Plug ID: | | 1002757776 | | | |
| Layer: | | 2 | | | |
| Plug From: Plug To: | | .6 5.4 | | | |
| Plug Depth U | IOM· | m | | | |
| | | | | | |
| Plug ID: | | 1002757777 | | | |
| Layer: | | 3 | | | |
| Plug From: Plug To: | | 5.4 8.8 | | | |
| Plug Depth U | IOM: | m | | | |
| Method of Co Use | onstruction & Well | | | | |
| Method Cons | struction ID: | 1002757781 | | | |
| | struction Code: | 5 | | | |
| Method Cons | | Air Percussion | | | |
| Other Method | d Construction: | | | | |
| Pipe Informa | tion | | | | |
| Pipe ID: | | 1002757769 | | | |
| Casing Numl | ber: | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| Construction | Record - Casing | | | | |
| | ricoord odomy | | | | |
| Casing ID: | | 1002757778 | | | |
| Layer: | | 1 | | | |
| Open Hole of Depth From: | | PLASTIC 0 | | | |
| Depth To: | | 5.9 | | | |
| Casing Diam | | 3.4 | | | |
| Casing Diam | | cm | | | |
| Casing Depti | n UOM: | m | | | |
| | | | | | |
| Construction | Record - Screen | | | | |
| Screen ID: | | 1002757779 | | | |
| Layer: | | 1 | | | |
| Slot: | - 4 | 10 | | | |
| Screen Top I Screen End I | Depth: | | | | |
| Screen Mater | | 5 | | | |
| Screen Depti | | m | | | |
| Screen Diam | | cm | | | |
| Screen Diam | eter: | 4 | | | |
| Hole Diamete | er | | | | |
| Hole ID: | | 1002757773 | | | |
| Diameter: | | 8.9 | | | |
| Depth From: | | 0 | | | |
| Depth To: | IOM. | 4.2 m | | | |
| Hole Depth U | ON: er UOM: | m cm | | | |
| | | | | | |
| Hole ID: | | 1002757774 | | | |
| Diameter: | | 5 | | | |
| Depth From: Depth To: | | 4.2 8.8 | | | |
| Hole Depth U | ЮМ: | m | | | |
| Hole Diamete | er UOM: | cm | | | |

DB Map Key Number of Direction/ Elevation Site Records Distance (m) (m) 1002757760 Bore Hole ID: DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: Remarks: Zone: 18 444903 East 83: North 83: 5027578 UTMRC: **UTMRC Description:** margin of error: 10 - 30 m Location Method: wwr UTM83 Org CS: Elevation: 64.53 Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status: Annular Space/Abandonment Sealing Record Plug ID: 1002757764 Layer: Plug From: Plug To: Plug Depth UOM: Method of Construction & Well Use 1002757763 **Method Construction ID: Method Construction Code: Method Construction:** AIR PERCUSSION **Other Method Construction:** Pipe Information Pipe ID: 1002757765 Casing Number: 0 Comment: Alt Name: Construction Record - Casing Casing ID: 1002757767 Layer: Open Hole or Material: **PLASTIC** Depth From: Depth To: 5.18 Casing Diameter: Casing Diameter UOM: Casing Depth UOM: m

--Construction Record - Screen

Screen ID: 1002757766

Layer:

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|---|---|------------------|------|----|
| Slot: Screen Top L Screen End L Screen Mater Screen Depth Screen Diam Screen Diam | Depth: rial: n UOM: eter UOM: | 5.18 8.5 m | | | |
| Well Yield Te | sting | | | | |
| Recommend Pumping Rate Flowing Rate Recommend Levels UOM: Rate UOM: | fter Pumping: ed Pump Depth: e: e: ed Pump Rate: After Test Code: After Test: et Method: ration HR: | 1002757768 | | | |
| Hole Diamete | er | | | | |
| Hole ID: Diameter: Depth From: Depth To: Hole Depth U | | 1002757762 5 8.5 m cm | | | |
| Bore Hole ID DP2BR: Code OB: Code OB Des | | 1002757751 | | | |
| Open Hole: Date Comple Remarks: | ted: | 16-MAR-09 | | | |
| Zone: East 83: North 83: UTMRC: UTMRC Desc Location Met | | 18 444773 5027850 3 margin of error : 10 wwr | - 30 m | | |
| Org CS: Elevation: Elevrc: Elevrc Descri Location Sou | iption: | UTM83 67.94 | | | |
| Improvement | t Location Source: t Location Method: nment: | | | | |
| Annular Space Sealing Reco | ce/Abandonment ord | | | | |
| Plug ID: Layer: | | 1002757755 | | | |

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

Plug From: Plug To:

Plug Depth UOM:

--

Method of Construction & Well

Use

-

Method Construction ID: 1002757754
Method Construction Code:

Method Construction:

Other Method Construction: AIR PERCUSSION

--

Pipe Information

•

Pipe ID: 1002757756

Casing Number: 0

Comment:

Alt Name:

Construction Record - Casing

-- --

Casing ID: 1002757758
Layer:
Open Hole or Material: PLASTIC

Depth From:

Depth To: 3

Casing Diameter: Casing Diameter UOM:

Casing Depth UOM: m
-- -- --

Construction Record - Screen

Screen ID: 1002757757

Layer: Slot:

Screen Top Depth: 3
Screen End Depth: 9.2

Screen Material:
Screen Depth UOM:

Screen Diameter UOM:

Screen Diameter:

-

Well Yield Testing

. --

Pump Test ID: 1002757759

Pump Set At: Static Level:

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM: Rate UOM: Water State A

Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN:

Flowing:

--

Hole Diameter

Hole ID: 1002757753

Diameter: 5

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--|--|------------------|------|----|
| Depth From: Depth To: Hole Depth U Hole Diamete | | 9.2 m cm | | | |
| Bore Hole ID: DP2BR: Code OB: Code OB Des Open Hole: | | 1002757742 | | | |
| Date Complet Remarks: | ed: | 16-MAR-09 | | | |
| Zone: East 83: North 83: UTMRC: UTMRC Desci | | 18 444863 5027819 3 margin of error : 10 | - 30 m | | |
| Improvement | ption: rce Date: ion Comment: Location Source: Location Method: ment: | wwr UTM83 70.26 | | | |
| Annular Space Sealing Reco | e/Abandonment rd | | | | |
| Plug ID: Layer: Plug From: Plug To: Plug Depth U | ом: | 1002757746 | | | |
| Method of Co Use | nstruction & Well | | | | |
| Method Cons | truction Code: | 1002757745 AIR PERCUSSION | | | |
| Pipe Informat | ion | | | | |
| Pipe ID: Casing Numb Comment: Alt Name: | er: | 1002757747 0 | | | |
| Construction | Record - Casing | | | | |
| Casing ID: Layer: Open Hole or | Material: | 1002757749 PLASTIC | | | |
| Depth From: Depth To: Casing Diame Casing Diame Casing Depth | eter UOM: | 3 m | | | |
| | | | | | |

Construction Record - Screen

1002757748 Screen ID:

Layer:

Slot:

3 Screen Top Depth: Screen End Depth: 8.5

Screen Material:

Screen Depth UOM: m

Screen Diameter UOM: Screen Diameter:

Well Yield Testing

Pump Test ID: 1002757750

Pump Set At: Static Level:

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM: Rate UOM:

Water State After Test Code: Water State After Test: Pumping Test Method: **Pumping Duration HR:** Pumping Duration MIN:

Flowing:

Hole Diameter

Hole ID: 1002757744

Diameter:

Depth From:

Depth To: 8.5 Hole Depth UOM: m Hole Diameter UOM: cm

1002757733 Bore Hole ID:

DP2BR:

Code OB:

Code OB Description:

Open Hole:

Date Completed: 13-MAR-09

Remarks:

18 Zone: East 83: 444904 North 83: 5027720

UTMRC: 3

UTMRC Description: margin of error: 10 - 30 m

Location Method: wwr Org CS: UTM83 Elevation: 69.43

Elevrc: Elevrc Description:

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

Supplier Comment: Spatial Status:

Annular Space/Abandonment

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|---------------------------------------|----------------------------|------------------|------|----|
| Sealing Reco | ord | | | | |
| Plug ID: Layer: Plug From: Plug To: Plug Depth U | OM: | 1002757737 | | | |
| Method of Co Use | onstruction & Well | | | | |
| Method Cons Method Cons Method Cons | truction Code: | 1002757736 | | | |
| Other Method Pipe Informa | d Construction: | AIR PERCUSSION | | | |
| Pipe ID: Casing Numl Comment: Alt Name: | | 1002757738 0 | | | |
| Construction | Record - Casing | | | | |
| Casing ID: Layer: | | 1002757740 | | | |
| Open Hole of Depth From: | Material: | PLASTIC | | | |
| Depth To: Casing Diam Casing Diam | eter UOM: | 3 | | | |
| Casing Depti | | m | | | |
| Construction Screen ID: | Record - Screen | 1002757739 | | | |
| Layer: Slot: | | | | | |
| Screen Top I Screen End I Screen Mate | Depth: | 3 9.2 | | | |
| Screen Depti Screen Diam Screen Diam | eter UOM: | m | | | |
| Well Yield Te | sting | | | | |
| Recommend Pumping Rate Flowing Rate | fter Pumping: ed Pump Depth: e: | 1002757741 | | | |

Recommended Pump Rate:

Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN:

Levels UOM: Rate UOM:

DB Map Key Number of Direction/ Elevation Site Records Distance (m) (m) Hole Diameter 1002757735 Hole ID: Diameter: Depth From: 9.2 Depth To: Hole Depth UOM: m Hole Diameter UOM: cm Bore Hole ID: 1002757724 DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: 13-MAR-09 Remarks: Zone: 18 East 83: 444936 North 83: 5027638 **UTMRC**: **UTMRC Description:** margin of error: 10 - 30 m Location Method: Org CS: UTM83 Elevation: 67.09 Elevrc: Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status: Annular Space/Abandonment Sealing Record Plug ID: 1002757728 Layer: Plug From: Plug To: Plug Depth UOM: Method of Construction & Well Use Method Construction ID: 1002757727 **Method Construction Code: Method Construction:** Other Method Construction: AIR PERCUSSION Pipe Information Pipe ID: 1002757729 Casing Number:

Alt Name:

Construction Record - Casing

Casing ID: 1002757731 Layer:

Comment:

Open Hole or Material: **PLASTIC**

Depth From:

Depth To: 3

Casing Diameter:

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--|----------------------------|------------------|------|----|
| Casing Diame | | | | | |
| Casing Depth | UOM: | m | | | |
| | | | | | |
| Construction | Record - Screen | | | | |
| Screen ID: Layer: Slot: | | 1002757730 | | | |
| Screen Top D | epth: | 3 | | | |
| Screen End D | | 9.2 | | | |
| Screen Mater | | | | | |
| Screen Depth Screen Diame | eter UOM: | m | | | |
| Screen Diame | eter: | | | | |
| Well Yield Te | sting | | | | |
| Pumping Rate Flowing Rate Recommende Levels UOM: Rate UOM: | fter Pumping: ed Pump Depth: e: ed Pump Rate: offer Test Code: offer Test: t Method: ation HR: | 1002757732 | | | |
| Hole Diamete | r | | | | |
| Hole ID: Diameter: | | 1002757726 5 | | | |
| Depth From: | | 0.0 | | | |
| Depth To: Hole Depth U | OM. | 9.2 m | | | |
| Hole Diamete | | cm | | | |
| | . JOH. | | | | |
| | | | | | |
| Bore Hole ID: DP2BR: Code OB: Code OB Des | | 1002757715 | | | |
| Open Hole: Date Complet Remarks: | ted: | 12-MAR-09 | | | |
| | | | | | |

18 Zone: 444838 East 83: North 83: UTMRC: 5027681

UTMRC Description: margin of error : 10 - 30 m

Location Method: wwr UTM83 Org CS: Elevation: 65.01

Elevrc:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method:

| Map Key Number of Direction/ Elevation Site Records Distance (m) (m) | Map Key | Number of Direction/ Records Distance (m) | Elevation (m) | Site | | DB |
|--|---------|--|------------------|------|--|----|
|--|---------|--|------------------|------|--|----|

Supplier Comment: Spatial Status:

Annular Space/Abandonment

Sealing Record

Plug ID: 1002757719

Layer: Plug From: Plug To:

Plug Depth UOM:

Method of Construction & Well

Use

1002757718

Method Construction ID: Method Construction Code:

Method Construction:

Other Method Construction: AIR PERCUSSION

Pipe Information

Pipe ID: 1002757720

Casing Number:

Comment: Alt Name:

Construction Record - Casing

Casing ID: 1002757722

Layer:

PLASTIC Open Hole or Material:

Depth From: Depth To:

3.7 Casing Diameter:

Casing Diameter UOM: Casing Depth UOM: m Construction Record - Screen

1002757721 Screen ID:

Layer:

Slot:

Screen Top Depth: 3.7 Screen End Depth: 6.7 Screen Material: Screen Depth UOM: Screen Diameter UOM:

Screen Diameter:

Well Yield Testing

Pump Test ID: 1002757723

Pump Set At: Static Level:

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM: Rate UOM:

Water State After Test Code: Water State After Test: Pumping Test Method:

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

Pumping Duration HR: **Pumping Duration MIN:**

Flowing:

Hole Diameter

Hole ID: 1002757717

Diameter: 5

Depth From:

Depth To: 6.7 Hole Depth UOM: m Hole Diameter UOM: cm

Bore Hole ID: 1002757706

DP2BR: Code OB:

Code OB Description:

Open Hole:

Date Completed: 12-MAR-09

Remarks:

Zone: 18 444878 East 83: North 83: 5027615 UTMRC:

margin of error: 10 - 30 m **UTMRC Description:**

Location Method: wwr UTM83 Org CS: Elevation: 64.73

Elevrc:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method:

Supplier Comment: Spatial Status:

Annular Space/Abandonment

Sealing Record

1002757710 Plug ID:

Layer: Plug From: Plug To:

Plug Depth UOM:

Method of Construction & Well

Use

1002757709

Method Construction ID: Method Construction Code:

Method Construction:

Other Method Construction: AIR PERCUSSION

Pipe Information

Pipe ID: 1002757711

Casing Number: Comment:

Alt Name:

Construction Record - Casing

Casing ID:

Layer:

1002757713

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB | |
|---|---|--|------------------|------|----|---|
| Open Hole or I Depth From: Depth To: Casing Diamet | | PLASTIC 4.6 | | | | _ |
| Casing Diamet Casing Depth | er UOM: | m | | | | |
| Construction F | Record - Screen | | | | | |
| Screen ID: Layer: Slot: | | 1002757712 | | | | |
| Screen Top De Screen End De Screen Materia | epth: al: | 4.6 7.6 | | | | |
| Screen Depth Screen Diamet Screen Diamet | er UOM: | m | | | | |
| Well Yield Tes | ting | | | | | |
| Pump Test ID: Pump Set At: Static Level: Final Level Aft Recommended Pumping Rate: Recommended Levels UOM: Rate UOM: Water State Af Pumping Test Pumping Dura Pumping Dura Flowing: | er Pumping: I Pump Depth: I Pump Rate: Iter Test Code: Iter Test: Method: Ition HR: | 1002757714 | | | | |
| Hole Diameter | | | | | | |
| Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter | | 1002757708 5 7.6 m cm | | | | |
| Bore Hole ID: DP2BR: Code OB: Code OB Desc Open Hole: | ription: | 1002757697 | | | | |
| Date Complete Remarks: | ed: | 12-MAR-09 | | | | |
| Zone: East 83: North 83: UTMRC: UTMRC Descri | ption: | 18 444889 5027571 3 margin of error : 10 | - 30 m | | | |
| Location Methorg CS: Elevation: Elevro: Elevro: Elevro: Elevro: | od: | wwr UTM83 64.4 | - | | | |

Elevrc Description:

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

Location Source Date: Source Revision Comment:

Improvement Location Source: Improvement Location Method:

Supplier Comment: Spatial Status:

-

Annular Space/Abandonment

Sealing Record

· --

Plug ID: 1002757701 **Layer:**

Plug From: Plug To: Plug Depth UOM:

--

Method of Construction & Well

Use

Method Construction ID: 1002757700

Method Construction Code: Method Construction:

Other Method Construction: AIR PERCUSSION

--Pipe Information

Pipe ID: 1002757702

Casing Number: 0

Comment: Alt Name:

-- Construction Record - Casing

--- Construction Record - Casing

Casing ID: 1002757704 **Layer:**

Open Hole or Material: PLASTIC

Depth From: Depth To:

Depth To: 5

Casing Diameter: Casing Diameter UOM: Casing Depth UOM:

Casing Depth UOM: m
--Construction Record - Screen

--

Screen ID: 1002757703

Layer: Slot:

Screen Top Depth: 5
Screen End Depth: 8
Screen Material:
Screen Depth UOM: m

Screen Diameter UOM: Screen Diameter:

Well Yield Testing

--

Pump Test ID: 1002757705

Pump Set At: Static Level:

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM:

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

Rate UOM:

Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN:

Flowing:

-

Hole Diameter

Hole ID: 1002757699

Diameter: 5

Depth From:
Depth To:
Hole Depth UOM:
Mole Diameter UOM:
Cm

Bore Hole ID: 1002757688

DP2BR: Code OB:

Code OB Description:

Open Hole:

Date Completed: 11-MAR-09

Remarks:

Zone: 18 **East 83:** 444923 **North 83:** 5027621

UTMRC: 3

UTMRC Description: margin of error: 10 - 30 m

Location Method:wwrOrg CS:UTM83Elevation:66.19

Elevrc:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: Improvement Location Method:

Supplier Comment: Spatial Status:

-- Annular Space/Abandonment

Sealing Record

--

Plug ID: 1002757692 **Layer:**

Plug From: Plug To: Plug Depth UOM:

--

Method of Construction & Well

Use

Method Construction ID: 1002757691

Method Construction Code:

Method Construction:

Other Method Construction: AIR PERCUSSION

.

Pipe Information

--

 Pipe ID:
 1002757693

 Casing Number:
 0

Comment:

Alt Name:

-

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|----------------------|----------------------|----------------------------|------------------|------|----|
| Construction | Record - Casing | | | | |
| | | | | | |
| Casing ID: Laver: | | 1002757695 | | | |

Open Hole or Material: **PLASTIC** Depth From: Depth To: 8.8

Casing Diameter: Casing Diameter UOM:

Casing Depth UOM: m Construction Record - Screen

Screen ID: 1002757694

Layer: Slot:

Screen Top Depth: 8.8 Screen End Depth: 11.8

Screen Material: Screen Depth UOM: Screen Diameter UOM: Screen Diameter:

Well Yield Testing

Pump Test ID: 1002757696

m

Pump Set At: Static Level:

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM: Rate UOM:

Water State After Test Code: Water State After Test: Pumping Test Method: **Pumping Duration HR:** Pumping Duration MIN:

Flowing:

Hole Diameter

Hole ID: 1002757690

Diameter: 5 Depth From:

11.8 Depth To: Hole Depth UOM:

m Hole Diameter UOM: cm

Bore Hole ID: 1002757679

DP2BR: Code OB:

Code OB Description:

Open Hole:

Date Completed: 10-MAR-09

Remarks:

18 Zone: 444941 East 83: North 83: 5027588

UTMRC:

UTMRC Description: margin of error: 10 - 30 m

Location Method:

| Map Key | Number of | Direction/ | Elevation | Site | DB |
|------------------------------|------------------------------|----------------|-----------|------|----|
| | Records | Distance (m) | (m) | | |
| Org CS: | | UTM83 | | | |
| Elevation: | | 65.39 | | | |
| Elevro: | ludla u | | | | |
| Elevrc Descr Location Sou | | | | | |
| | ion Comment: | | | | |
| | Location Source: | | | | |
| | Location Method: | | | | |
| Supplier Con | nment: | | | | |
| Spatial Statu | s: | | | | |
| | (4) | | | | |
| | ce/Abandonment | | | | |
| Sealing Reco | ıru | | | | |
| Plug ID: | | 1002757683 | | | |
| Layer: | | - | | | |
| Plug From: | | | | | |
| Plug To: | | | | | |
| Plug Depth U | OW: | | | | |
| Method of Co | nstruction & Well | == | | | |
| Use | | | | | |
| | | | | | |
| Method Cons | truction ID: | 1002757682 | | | |
| | truction Code: | | | | |
| Method Cons | truction: d Construction: | AIR PERCUSSION | | | |
| Other Wethod | i Construction: | | | | |
| Pipe Informa | tion | | | | |
| ['] | | | | | |
| Pipe ID: | | 1002757684 | | | |
| Casing Numl | oer: | 0 | | | |
| Comment: Alt Name: | | | | | |
| Alt Name. | | | | | |
| Construction | Record - Casing | | | | |
| | J | | | | |
| Casing ID: | | 1002757686 | | | |
| Layer: Open Hole o | · Matarial: | PLASTIC | | | |
| Depth From: | waleriar. | ILASTIC | | | |
| Depth To: | | 4.6 | | | |
| Casing Diam | | | | | |
| Casing Diam | eter UOM: | | | | |
| Casing Depti | OM: | m | | | |
| | | | | | |
| | Record - Screen | | | | |
| | | | | | |
| Screen ID: | | 1002757685 | | | |
| Layer: | | | | | |
| Slot: | lonth: | 4.6 | | | |
| Screen Top L Screen End L | | 4.6 7.6 | | | |
| Screen Mater | | 7.0 | | | |
| Screen Depti | | m | | | |
| Screen Diam | eter UOM: | | | | |
| Screen Diam | otor. | | | | |

1002757687

Screen Diameter:

Well Yield Testing

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|--|---|------------------|--|-----|
| Levels UOM: Rate UOM: | e: ed Pump Rate: After Test Code: After Test: et Method: ration HR: | | | | |
| Hole Diamete | er | | | | |
| Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete | IOM: er UOM: | 7.6 m cm | | | |
| - | | | | | |
| 29 | 1 of 2 | ENE/182.8 | 77.1 | HYDRO OTTAWA LIMITED 247 GLEBE OTTAWA ON K1S 2C8 | GEN |
| PO Box Num Status: Country: Generator #: Approval Yrs SIC Code: SIC Descripti | ı: | ON8094774 05 221122 Electric Power Dist | ribution | | |
| Details Waste Code Waste Desc | e: | 243 PCB'S | | | |
| <u>29</u> | 2 of 2 | ENE/182.8 | 77.1 | OTTAWA HYDRO 247 GLEBE AVENUE OTTAWA ON K1S 2C8 | GEN |
| PO Box Num Status: Country: Generator #: Approval Yrs SIC Code: SIC Descripti | i: | ON0456605 93,94,95,96,97,98, 4911 ELECT. POWER S | | | |
| Details Waste Code Waste Desc + | | 251 OIL SKIMMINGS 8 | SLUDGES | | |
| Waste Code Waste Desc | | 252 WASTE OILS & LU | JBRICANTS | | |
| 30 | 1 of 4 | ESE/184.4 | 73.7 | K&R Dental Laboratories Ltd. 794 Bronson Ave Ottawa ON K1S 4G4 | SCT |
| Established: Plant Size (ft ² | ²): | 01-AUG-92 3000 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|-----------------------|--|------------------|--|-----|
| Employment | ī | | | | |
| Details Description SIC/NAICS + Description | Code: | Medical Equipment 339110 Medical Equipment | | | |
| SIC/NAICS | | 339110 | and Cappings man | | |
| <u>30</u> | 2 of 4 | ESE/184.4 | 73.7 | K & R Dental Laboratories Ltd 794 Bronson Ave Ottawa ON K1S 4G4 | SCT |
| Established: Plant Size (ft [.] Employment | | | | | |
| Details Description SIC/NAICS | | Medical Equipment 339110 | and Supplies Mar | nufacturing | _ |
| <u>30</u> | 3 of 4 | ESE/184.4 | 73.7 | K & R Dental Laboratories Ltd. 794 Bronson Ave Ottawa ON K1S 4G4 | SCT |
| Established: | | | | | |
| Plant Size (ft ^a Employment | | 25 | | | |
| Details | | | | | |
| Description SIC/NAICS | | Medical Equipment 339110 | and Supplies Mar | nufacturing | |
| <u>30</u> | 4 of 4 | ESE/184.4 | 73.7 | Shaw Laboratories 794 Bronson Ave Ottawa ON K1S 4G4 | SCT |
| Established: | | | | | |
| Plant Size (ft ^a Employment | | 23 | | | |
| Details Description SIC/NAICS | ı: Code: | Medical Equipment 339110 | and Supplies Mar | nufacturing | |
| <u>31</u> | 1 of 58 | WNW/186.8 | 66.4 | PUBLIC WORKS & GOVT. SERVICES CANADA 615 BOOTH STREET OTTAWA CITY ON | CA |
| Certificate #: Application \ Issue Date: Approval Typ Status: Application \ Client Name: Client City: | /ear: pe: Type: | 8-4224-99- 99 10/27/1999 Industrial air Approved | | | |
| Client Postal Project Desc Contaminant Emission Co | ription: s: | 400KW EMERGEN | ICY GENERATOR | (Y2K) | |

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) 2 of 58 WNW/186.8 66.4 GVT. OF CAN. - ENERGY MINES & RES.18-151 31 **GEN GEOLOGICAL SURVEY OF CANADA 601 BOOTH** STREET OTTAWA ON K1A 0E8

PO Box Num: Status: Country:

 Generator #:
 ON0269503

 Approval Yrs:
 94,95,96

 SIC Code:
 8129

SIC Description: OTHER PROTECT. SERV.

--- Details ---

Waste Code: 114

Waste Description: OTHER INORGANIC ACID WASTES

T.

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

+

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

+

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

+

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

+

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

+

Waste Code: 253

Waste Description: EMULSIFIED OILS

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 267

Waste Description: ORGANIC ACIDS

31 3 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES

CANADA

Room 721 601 Booth Street

GEN

Order No: 20161003159

OTTAWA ON

PO Box Num: Status: Country:

 Generator #:
 ON0269503

 Approval Yrs:
 2010

 SIC Code:
 911310

SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

+

| Мар Кеу | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|----------------------|-----------------------------|------------------------|---|-----|
| Waste Code Waste Desc | | 122 ALKALINE WASTES | S - OTHER METALS | | |
| + Waste Code Waste Desc | | 146 OTHER SPECIFIED | INORGANICS | | |
| + Waste Code Waste Desc | | 331 WASTE COMPRES | SED GASES | | |
| + Waste Code Waste Desc + | | 121 ALKALINE WASTES | S - HEAVY METALS | | |
| Waste Code Waste Desc + | | 253 EMULSIFIED OILS | | | |
| Waste Code Waste Desc | | 211 AROMATIC SOLVE | NTS | | |
| Waste Code Waste Desc | | 112 ACID WASTE - HEA | AVY METALS | | |
| Waste Code Waste Desc | | 267 ORGANIC ACIDS | | | |
| Waste Code Waste Desc + | | 114 OTHER INORGANIO | C ACID WASTES | | |
| Waste Code Waste Desc | | 145 PAINT/PIGMENT/C | OATING RESIDUES | | |
| Waste Code Waste Desc + | | 213 PETROLEUM DIST | ILLATES | | |
| Waste Code Waste Desc + | | 212 ALIPHATIC SOLVE | NTS | | |
| Waste Code Waste Desc | | 251 OIL SKIMMINGS & | SLUDGES | | |
| <u>31</u> | 4 of 58 | WNW/186.8 | 66.4 | BROOKFIELD JOHNSON CONTROLS 601 Booth St. Ottawa ON | GEN |
| PO Box Num Status: Country: Generator #: Approval Yrs SIC Code: SIC Descripti | : | ON6935214 As of May 2015 | | | |
| Details Waste Code Waste Desc | | 145 Wastes from the use | e of pigments, coating | gs and paints | |
| <u>31</u> | 5 of 58 | WNW/186.8 | 66.4 | GVT. OF CAN ENERGY MINES & RES. GEOLOGICAL SURVEY OF CANADA 601 BOOTH STREET OTTAWA ON K1A 0E8 | GEN |
| PO Box Num | : | | | | |
| Status: Country: Generator #: | | ON0269503 | | | |

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m)

92,93,97 Approval Yrs: SIC Code: 8129

OTHER PROTECT. SERV. SIC Description:

--- Details ---

Waste Code: 114

Waste Description: OTHER INORGANIC ACID WASTES

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

ALKALINE WASTES - OTHER METALS Waste Description:

Waste Code:

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code:

AROMATIC SOLVENTS Waste Description:

Waste Code:

PETROLEUM DISTILLATES Waste Description:

Waste Code:

OIL SKIMMINGS & SLUDGES Waste Description:

Waste Code:

Waste Description: **EMULSIFIED OILS**

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

Waste Description: **ORGANIC ACIDS**

WNW/186.8 GVT. OF CAN. - NATURAL RESOURCES 31 6 of 58 66.4

CANADA

Room 721 601 Booth Street OTTAWA ON K1A 0E8

PO Box Num: Status:

Country: Generator #:

ON0269503 Approval Yrs: As of May 2015

SIC Code: SIC Description:

--- Details ---

212 Waste Code:

Waste Description: Aliphatic solvents and residues

Waste Code:

Waste Description: Waste compressed gases including cylinders

Waste Code: 241

Waste Description: Halogenated solvents and residues

Waste Code:

Waste Description: Other specified inorganic sludges, slurries or solids

Waste Code:

Waste Description: Misc. waste organic chemicals

Waste Code: 112 **GEN**

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m) Waste Description: Acid solutions - containing heavy metals Waste Code: 148 Waste Description: Misc. wastes and inorganic chemicals Waste Code: Waste Description: Waste crankcase oils and lubricants 7 of 58 WNW/186.8 66.4 GVT. OF CAN.-ENERGY, MINES & RES. 31 **GEN GEOLOGICAL COMMISSION OF CANADA 601** BOOTH ST. OTTAWA ON K1A 0E4 PO Box Num: Status: Country: Generator #: ON0269508 Approval Yrs: 86,87,88,89,90 SIC Code: 0000 *** NOT DEFINED *** SIC Description: 8 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31 **GEN CANADA GEOLOGICAL SURVEY OF CANADA 601 BOOTH** STREET OTTAWA ON K1A 0E8 PO Box Num: Status: Country: Generator #: ON0269503 Approval Yrs: 98,99,00,01,02,03,04,05,06,07,08 SIC Code: SIC Description: OTHER PROTECT. SERV. --- Details ---Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS Waste Code: Waste Description: ALIPHATIC SOLVENTS Waste Code: 145 PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: Waste Description: PAINT/PIGMENT/COATING RESIDUES Waste Code: Waste Description: ACID WASTE - HEAVY METALS 146 Waste Code: Waste Description: OTHER SPECIFIED INORGANICS Waste Code: Waste Description: OTHER INORGANIC ACID WASTES Waste Code: Waste Description: ALKALINE WASTES - HEAVY METALS Waste Code: **ALKALINE WASTES - OTHER METALS** Waste Description: Waste Code: 148

Number of Site DΒ Map Key Direction/ Elevation

INORGANIC LABORATORY CHEMICALS Waste Description:

Distance (m)

Waste Code:

Records

AROMATIC SOLVENTS Waste Description:

Waste Code:

Waste Description: PETROLEUM DISTILLATES

Waste Code:

Waste Description: **OIL SKIMMINGS & SLUDGES**

Waste Code:

EMULSIFIED OILS Waste Description:

Waste Code:

ORGANIC LABORATORY CHEMICALS Waste Description:

Waste Code:

ORGANIC ACIDS Waste Description:

Waste Code: 331

Waste Description: WASTE COMPRESSED GASES

GVT. OF CAN. - NATURAL RESOURCES 31 9 of 58 WNW/186.8 66.4

CANADA

Room 721 601 Booth Street

GEN

Order No: 20161003159

OTTAWA ON

PO Box Num: Status:

Country: Generator #: ON0269503 2012 Approval Yrs:

911310 SIC Code: SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code:

PETROLEUM DISTILLATES Waste Description:

Waste Code:

INORGANIC LABORATORY CHEMICALS Waste Description:

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code:

Waste Description: WASTE COMPRESSED GASES

Waste Code:

Waste Description: AROMATIC SOLVENTS

Waste Code:

OTHER INORGANIC ACID WASTES Waste Description:

Waste Code:

Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code:

ORGANIC LABORATORY CHEMICALS Waste Description:

Waste Code: 112

Number of Site DΒ Map Key Direction/ Elevation Records Distance (m) Waste Description: **ACID WASTE - HEAVY METALS** Waste Code: OTHER SPECIFIED INORGANICS Waste Description: Waste Code: 251 Waste Description: **OIL SKIMMINGS & SLUDGES** Waste Code: Waste Description: **EMULSIFIED OILS** Waste Code: PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: **ORGANIC ACIDS** Waste Description: **31** 10 of 58 WNW/186.8 66.4 GVT. OF CAN.-ENERGY, MINES & RES. 18-249 **GEN GEOLOGICAL COMMISSION OF CANADA 601** BOOTH ST. OTTAWA ON K1A 0E4 PO Box Num: Status: Country: ON0269508 Generator #: Approval Yrs: 92,93,94,95 SIC Code: 8000 SIC Description: **EXEMPT** WNW/186.8 GVT. OF CAN. - ENERGY MINES & RES. 31 11 of 58 66.4 **GEN GEOLOGICAL SURVEY OF CANADA 601 BOOTH** OTTAWA ON K1A 0E8 PO Box Num: Status: Country: Generator #: ON0269503 Approval Yrs: 86,87,88,89,90 SIC Code: 8129 SIC Description: OTHER PROTECT. SERV. --- Details ---Waste Code: Waste Description: OTHER INORGANIC ACID WASTES Waste Code: **INORGANIC LABORATORY CHEMICALS** Waste Description: Waste Code: Waste Description: AROMATIC SOLVENTS Waste Code: **OIL SKIMMINGS & SLUDGES** Waste Description:

ORGANIC ACIDS

EMULSIFIED OILS

ORGANIC LABORATORY CHEMICALS

Order No: 20161003159

Waste Code: Waste Description:

Waste Code:

Waste Code:

Waste Description:

Waste Description:

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) 12 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31 GEN Room 721 601 Booth Street OTTAWA ON PO Box Num: Status: Country: ON0269503 Generator #: Approval Yrs: 2011 SIC Code: 911310 SIC Description: Federal Labour and Employment Services --- Details ---Waste Code: 122 Waste Description: ALKALINE WASTES - OTHER METALS Waste Code: ACID WASTE - HEAVY METALS Waste Description: Waste Code: Waste Description: WASTE COMPRESSED GASES Waste Code: ALIPHATIC SOLVENTS Waste Description: Waste Code: PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: ORGANIC LABORATORY CHEMICALS Waste Description: Waste Code: Waste Description: OTHER INORGANIC ACID WASTES Waste Code: **OIL SKIMMINGS & SLUDGES** Waste Description: Waste Code: OTHER SPECIFIED INORGANICS Waste Description: Waste Code: Waste Description: **INORGANIC LABORATORY CHEMICALS** 253 Waste Code: **EMULSIFIED OILS** Waste Description: Waste Code: Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

Waste Description: AROMATIC SOLVENTS

Waste Code: 267

ORGANIC ACIDS Waste Description:

31 13 of 58 WNW/186.8 66.4 HEALTH AND WELFARE CANADA

601 BOOTH STREET (EMR) HEALTH UNIT #7,

RM 136

OTTAWA ON K1A 0E4

GEN

Number of Direction/ Elevation Site DΒ Map Key

Records

Distance (m) (m)

PO Box Num:

Status: Country: Generator #:

ON0095609 Approval Yrs: 98,99,00,01

8635 SIC Code:

PUB. HEALTH CLINICS SIC Description:

--- Details ---

Waste Code: 312

Waste Description: PATHOLOGICAL WASTES

14 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31

CANADA

Room 721 601 Booth Street

GEN

Order No: 20161003159

OTTAWA ON

PO Box Num:

Status: Country:

ON0269503 Generator #: 2009 Approval Yrs: SIC Code: 911310

SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code:

ACID WASTE - HEAVY METALS Waste Description:

Waste Code:

Waste Description: OTHER INORGANIC ACID WASTES

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

ALKALINE WASTES - OTHER METALS Waste Description:

Waste Code:

PAINT/PIGMENT/COATING RESIDUES Waste Description:

Waste Code:

OTHER SPECIFIED INORGANICS Waste Description:

Waste Code:

Waste Description: **INORGANIC LABORATORY CHEMICALS**

Waste Code:

AROMATIC SOLVENTS Waste Description:

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

Waste Code:

Waste Description: PETROLEUM DISTILLATES

Waste Code:

Waste Description: **OIL SKIMMINGS & SLUDGES**

Waste Code: 253

Waste Description: **EMULSIFIED OILS**

Waste Code:

Waste Description: ORGANIC LABORATORY CHEMICALS

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m)

Waste Code:

ORGANIC ACIDS Waste Description:

Waste Code:

WASTE COMPRESSED GASES Waste Description:

31 15 of 58 WNW/186.8 66.4 HEALTH AND WELFARE CANADA

HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR)

GEN

Order No: 20161003159

OTTAWA ON K1A 0E4

PO Box Num: Status: Country:

ON0095609 Generator #: Approval Yrs: 92,93,97 SIC Code: 8635

PUB. HEALTH CLINICS SIC Description:

--- Details ---

Waste Code: 312

Waste Description: PATHOLOGICAL WASTES

16 of 58 WNW/186.8 66.4 **Brookfield Global Integrated Solutions** 31 **GEN** 615 Booth Street

Ottawa ON K1A0E9

PO Box Num:

Registered Status: Country: Canada ON9682327 Generator #: Approval Yrs: As of Sep 2016

SIC Code: SIC Description:

--- Details ---

Waste Code: 112 C

Waste Description: Acid solutions - containing heavy metals

Waste Code: 122 C

Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Code:

Waste Description: Alkaline slutions - containing heavy metals

Waste Code: 146 T

Waste Description: Other specified inorganic sludges, slurries or solids

Waste Code:

Wastes from the use of pigments, coatings and paints Waste Description:

Waste Code:

Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 C

Misc. wastes and inorganic chemicals Waste Description:

Waste Code:

Waste Description: Waste crankcase oils and lubricants

Waste Code: 213 I

Petroleum distillates Waste Description:

Waste Code:

Waste Description: Misc. waste organic chemicals

Map Key Number of Direction/ Elevation Site DΒ Records Distance (m) (m) Waste Code: 243 D PCB Waste Description: Waste Code: 331 I Waste compressed gases including cylinders Waste Description: 31 17 of 58 WNW/186.8 66.4 SNC Lavalin **GEN** 615 Booth Street Ottawa ON PO Box Num: Status: Country: ON9682327 Generator #: 2012 Approval Yrs: SIC Code: 531310 SIC Description: Real Estate Property Managers 31 18 of 58 WNW/186.8 66.4 SNC Lavalin **GEN** 615 Booth Street Ottawa ON PO Box Num: Status: Country: ON9682327 Generator #: Approval Yrs: 2013 SIC Code: 531310 SIC Description: REAL ESTATE PROPERTY MANAGERS --- Details ---Waste Code: 145 PAINT/PIGMENT/COATING RESIDUES Waste Description: 19 of 58 GVT. OF CAN. - NATURAL RESOURCES 31 WNW/186.8 66.4 **GEN CANADA** 615 BOOTH STREET OTTAWA ON PO Box Num: Status: Country: ON0269504 Generator #: Approval Yrs: 2013 SIC Code: 911310 SIC Description: --- Details ---Waste Code: WASTE OILS & LUBRICANTS Waste Description: Waste Code: PHOTOPROCESSING WASTES Waste Description: Waste Code: Waste Description: HALOGENATED PESTICIDES Waste Code: OTHER SPECIFIED INORGANICS Waste Description: Waste Code: PETROLEUM DISTILLATES Waste Description:

Number of Site DΒ Map Key Direction/ Elevation

Waste Code:

Records

INORGANIC LABORATORY CHEMICALS Waste Description:

Distance (m)

Waste Code:

ORGANIC LABORATORY CHEMICALS Waste Description:

Waste Code:

Waste Description: ACID WASTE - HEAVY METALS

Waste Code:

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

20 of 58 WNW/186.8 66.4 NATURAL RESOURCES CANADA 31 615 BOOTH STREET

OTTAWA ON

GEN

Order No: 20161003159

PO Box Num: Status:

Country:

Generator #: ON2560242 2012 Approval Yrs: SIC Code: 531310

SIC Description: Real Estate Property Managers

--- Details ---

Waste Code:

ACID WASTE - HEAVY METALS Waste Description:

Waste Code: 145

PAINT/PIGMENT/COATING RESIDUES Waste Description:

Waste Code:

Waste Description: ORGANIC LABORATORY CHEMICALS

243

PCBS

Waste Code: Waste Description:

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

INORGANIC LABORATORY CHEMICALS Waste Description:

Waste Code:

Waste Description: ACID WASTE - OTHER METALS

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

Waste Code:

WASTE COMPRESSED GASES Waste Description:

Number of Direction/ Site DΒ Map Key Elevation Records Distance (m) 213 Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: Waste Description: WASTE OILS & LUBRICANTS GVT. OF CAN. - NATURAL RESOURCES WNW/186.8 31 21 of 58 66.4 **GEN CANADA** 615 BOOTH STREET OTTAWA ON K1A 0E9 PO Box Num: Status: Country: ON0269504 Generator #: Approval Yrs: 02,03,04,05,06 SIC Code: SIC Description: --- Details ---Waste Code: 146 Waste Description: OTHER SPECIFIED INORGANICS Waste Code: ACID WASTE - HEAVY METALS Waste Description: Waste Code: 121 Waste Description: ALKALINE WASTES - HEAVY METALS Waste Code: Waste Description: PAINT/PIGMENT/COATING RESIDUES Waste Code: Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: 212 ALIPHATIC SOLVENTS Waste Description: Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: Waste Description: HALOGENATED PESTICIDES Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS Waste Code: 264 PHOTOPROCESSING WASTES Waste Description: 22 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31 **GEN**

CANADA

615 BOOTH STREET OTTAWA ON

Order No: 20161003159

PO Box Num: Status:

 Country:
 Generator #:
 ON0269504

 Approval Yrs:
 2011

 SIC Code:
 911310

Number of Direction/ Site DΒ Map Key Elevation

Records Distance (m)

Federal Labour and Employment Services

--- Details ---

SIC Description:

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

ALIPHATIC SOLVENTS Waste Description:

Waste Code:

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code:

Waste Description: HALOGENATED PESTICIDES

Waste Code:

Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 264

PHOTOPROCESSING WASTES Waste Description:

Waste Code:

Waste Description: ACID WASTE - HEAVY METALS

Waste Code:

PETROLEUM DISTILLATES Waste Description:

23 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31

CANADA

615 BOOTH STREET OTTAWA ON

PO Box Num:

Status: Country:

ON0269504 Generator #: Approval Yrs: 2010 911310 SIC Code:

SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

Waste Code:

Waste Description: HALOGENATED PESTICIDES

Waste Code:

Waste Description: PHOTOPROCESSING WASTES

Waste Code: 213

Waste Description:

PETROLEUM DISTILLATES

Waste Code:

INORGANIC LABORATORY CHEMICALS Waste Description:

GEN

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

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

31 24 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES

CANADA 615 BOOTH STREET OTTAWA ON **GEN**

Order No: 20161003159

PO Box Num: Status:

Country:

 Generator #:
 ON0269504

 Approval Yrs:
 2009

 SIC Code:
 911310

SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

+

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 2

Waste Description: ALIPHATIC SOLVENTS

Waste Code: 21

Waste Description: PETROLEUM DISTILLATES

Waste Code: 242

Waste Description: HALOGENATED PESTICIDES

Waste Code: 25

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 264

Waste Description: PHOTOPROCESSING WASTES

Map Key Number of Direction/ Elevation Site DΒ Records Distance (m) (m) 25 of 58 WNW/186.8 66.4 GVT. OF CANADA - PUBLIC WORKS 31 **GEN** CANADIAN HYDROGRAPHIC SERV., 615 BOOTH C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3 PO Box Num: Status: Country: Generator #: ON0144754 Approval Yrs: 89 SIC Code: 8129 SIC Description: OTHER PROTECT. SERV. --- Details ---Waste Code: 114 Waste Description: OTHER INORGANIC ACID WASTES Waste Code: Waste Description: ALKALINE WASTES - OTHER METALS Waste Code: Waste Description: PHOTOPROCESSING WASTES WNW/186.8 GVT. OF CAN. - SEE & USE ON0269504 26 of 58 66.4 31 **GEN SURVEYS & MAPPING 615 BOOTH STREET** OTTAWA ON K1A 0E9 PO Box Num: Status: Country: Generator #: IB0269504 Approval Yrs: 86,87 SIC Code: 0000 SIC Description: *** NOT DEFINED *** 27 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31 **GEN CANADA** 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6 PO Box Num: Status: Country: Generator #: ON0269504 Approval Yrs: 98,99,00,01 SIC Code: 8172 RES. CONS./IND. DEV. SIC Description: --- Details ---Waste Code: ACID WASTE - HEAVY METALS Waste Description: Waste Code: ALKALINE WASTES - HEAVY METALS Waste Description: Waste Code: 145 Waste Description: PAINT/PIGMENT/COATING RESIDUES Waste Code: Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: 212 ALIPHATIC SOLVENTS

Order No: 20161003159

Waste Description:

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m) Waste Code: PETROLEUM DISTILLATES Waste Description: Waste Code: HALOGENATED PESTICIDES Waste Description: Waste Code: Waste Description: WASTE OILS & LUBRICANTS Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS Waste Code: 264 Waste Description: PHOTOPROCESSING WASTES 31 28 of 58 WNW/186.8 66.4 **PUBLIC WORKS CANADA GEN** 615 BOOTH STREET EMR-SURVEYS AND **MAPPING** OTTAWA ON K1A 0M3 PO Box Num: Status: Country: ON0269516 Generator #: Approval Yrs: 93,94,95,96,97,98,99,00,01 SIC Code: 8159 SIC Description: OTHER GEN. ADMIN. --- Details ---Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: ACID WASTE - OTHER METALS Waste Description: Waste Code: Waste Description: ALIPHATIC SOLVENTS Waste Code: 213 PETROLEUM DISTILLATES Waste Description: Waste Code: HALOGENATED SOLVENTS Waste Description: GVT. OF CAN.-SUPPLY AND SERVICES 31 29 of 58 WNW/186.8 66.4 **GEN** COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10 OTTAWA ON K1A 0S7 PO Box Num: Status: Country:

Order No: 20161003159

 Generator #:
 ON0249610

 Approval Yrs:
 90

 SIC Code:
 8159

SIC Description: OTHER GEN. ADMIN.

--- Details ---

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) 30 of 58 WNW/186.8 66.4 GVT. OF CAN. - NATURAL RESOURCES 31 **GEN CANADA** 615 BOOTH STREET OTTAWA ON K1A 0E9

PO Box Num: Status: Country:

ON0269504 Generator #: Approval Yrs: 2012 911310 SIC Code:

SIC Description: Federal Labour and Employment Services

--- Details ---

Waste Code:

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

Waste Code:

Waste Description: HALOGENATED PESTICIDES

Waste Code:

ALKALINE WASTES - HEAVY METALS Waste Description:

Waste Code:

PHOTOPROCESSING WASTES Waste Description:

Waste Code:

ACID WASTE - HEAVY METALS Waste Description:

Waste Code:

PAINT/PIGMENT/COATING RESIDUES Waste Description:

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code:

Waste Description: WASTE OILS & LUBRICANTS

Waste Code:

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

PETROLEUM DISTILLATES Waste Description:

31 31 of 58 WNW/186.8 66.4 GVT. OF CAN. - ENERGY MINES & RES. **GEN SURVEYS & MAPPING 615 BOOTH STREET**

OTTAWA ON K1A 0E9

Order No: 20161003159

PO Box Num: Status:

Country: ON0269504 Generator #: Approval Yrs: 86,87,88 SIC Code: 8172

SIC Description: RES. CONS./IND. DEV.

--- Details ---

Waste Code:

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 212 Map Key Number of Direction/ Elevation Site DB

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 213

Records

Waste Description: PETROLEUM DISTILLATES

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Distance (m)

Waste Code: 26

Waste Description: PHOTOPROCESSING WASTES

31 32 of 58 WNW/186.8 66.4 NATURAL RESOURCES CANADA

615 BOOTH STREET

GEN

Order No: 20161003159

OTTAWA ON

PO Box Num:

Status: Country:

 Generator #:
 ON2560242

 Approval Yrs:
 2011

 SIC Code:
 531310

SIC Description: Real Estate Property Managers

--- Details ---

Waste Code: 121

Waste Description: ALKALINE WASTES - HEAVY METALS

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

+

Waste Code: 113

Waste Description: ACID WASTE - OTHER METALS

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

+

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

+

Waste Code: 243
Waste Description: PCBS

+

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 331

Waste Description: WASTE COMPRESSED GASES

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m) 33 of 58 WNW/186.8 66.4 Stantec Consulting Ltd. 31 **GEN** 615 BOOTH STREET OTTAWA ON PO Box Num: Status: Country: Generator #: ON5162599 Approval Yrs: 2009 SIC Code: 541710 SIC Description: Research and Development in the Physical Engineering and Life Sciences --- Details ---Waste Code: LIGHT FUELS Waste Description: **31** 34 of 58 WNW/186.8 66.4 NATURAL RESOURCES CANADA **GEN** 615 BOOTH STREET GEOMATICS CANADA OTTAWA ON K1A 0E6 PO Box Num: Status: Country: Generator #: ON0269504 Approval Yrs: 92,93,97 SIC Code: 8172 SIC Description: RES. CONS./IND. DEV. --- Details ---Waste Code: Waste Description: ALKALINE WASTES - HEAVY METALS Waste Code: Waste Description: PAINT/PIGMENT/COATING RESIDUES Waste Code: Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: 242 Waste Description: HALOGENATED PESTICIDES Waste Code: WASTE OILS & LUBRICANTS Waste Description: Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS

+

Waste Code: 264

Waste Description: PHOTOPROCESSING WASTES

+

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

35 of 58

WNW/186.8 66.4

BROOKFIELD JOHNSON CONTROLS 615 Booth Street

GEN

Ottawa ON

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

PO Box Num: Status: Country:

Generator #: ON9682327 Approval Yrs: As of May 2015

SIC Code: SIC Description:

--- Details ---

Waste Code: 146

Waste Description: Other specified inorganic sludges, slurries or solids

+

Waste Code: 145

Waste Description: Wastes from the use of pigments, coatings and paints

+

Waste Code: 213

Waste Description: Petroleum distillates

+

Waste Code: 252

Waste Description: Waste crankcase oils and lubricants

+

Waste Code: 112

Waste Description: Acid solutions - containing heavy metals

+

Waste Code: 263

Waste Description: Misc. waste organic chemicals

+

Waste Code: 243
Waste Description: PCB
+

Waste Code: 121

Waste Description: Alkaline slutions - containing heavy metals

+

Waste Code: 122

Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)

+

Waste Code: 331

Waste Description: Waste compressed gases including cylinders

31 36 of 58 WNW/186.8 66.4 MAPPING AND CHARTING ESTABLISHMENT

615 BOOTH STREET OTTAWA ON KOA 1KO

PO Box Num: Status:

Country: Generator #:

 Generator #:
 ON1932200

 Approval Yrs:
 94,95,96,97,98,99

SIC Code: 2849

SIC Description: OTHER PRINTING IND.

--- Details ---

Waste Code: 264

Waste Description: PHOTOPROCESSING WASTES

31 37 of 58 WNW/186.8 66.4 NATURAL RESOURCES CANADA 18-167 GEN

GEOMATICS CANADA 615 BOOTH STREET

Order No: 20161003159

OTTAWA ON

PO Box Num: Status:

Country:

Generator #:

Approval Vec:

94.95.96

 Approval Yrs:
 94,95,96

 SIC Code:
 8172

Number of Direction/ Site DΒ Map Key Elevation Records Distance (m) RES. CONS./IND. DEV. SIC Description: --- Details ---Waste Code: 112 Waste Description: ACID WASTE - HEAVY METALS Waste Code: Waste Description: ALKALINE WASTES - HEAVY METALS Waste Code: 148 Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: ALIPHATIC SOLVENTS Waste Description: Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: 242 Waste Description: HALOGENATED PESTICIDES Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS Waste Code: 264 PHOTOPROCESSING WASTES Waste Description: **PUBLIC WORKS CANADA** 31 38 of 58 WNW/186.8 66.4 GEN **CANADIAN HYDROGRAPHIC SERVICE 615 BOOTH STREET** OTTAWA ON K1A 0E6 PO Box Num: Status: Country: ON0144754 Generator #: Approval Yrs: 98,99,00,01 SIC Code: 8129 SIC Description: OTHER PROTECT. SERV. --- Details ---Waste Code: 114 Waste Description: OTHER INORGANIC ACID WASTES

Waste Code:

ALKALINE WASTES - OTHER METALS Waste Description:

Waste Code:

Waste Description: PETROLEUM DISTILLATES

Waste Code:

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

Waste Description: PHOTOPROCESSING WASTES

31 39 of 58 WNW/186.8 66.4 GVT. OF CAN.-SUPPLY AND SERVICES 17-385

COMMUNICATIONS SERVICES 615 BOOTH ST.

GEN

Order No: 20161003159

ROOM G-10

OTTAWA ON K1A 0S7

PO Box Num:

Number of Direction/ Elevation Site DΒ Map Key

Status: Country:

Generator #: ON0249610 Approval Yrs: 92,93,94,95,96,97

SIC Code:

Records

OTHER GEN. ADMIN. SIC Description:

--- Details ---

213 Waste Code:

Waste Description: PETROLEUM DISTILLATES

Waste Code: 252

WASTE OILS & LUBRICANTS Waste Description:

31 40 of 58 WNW/186.8 66.4 NATIONAL DEFENSE

Distance (m)

(m)

MAPPING & CHARTING ESTABLISMENT 615

GEN

Order No: 20161003159

BOOTH STREET

OTTAWA ON K2P 0G2

PO Box Num:

Country:

Status:

Generator #: ON2487206

Approval Yrs: 00,01,03,04,05,06

SIC Code: 8111

DEFENCE SERVICES SIC Description:

--- Details ---

Waste Code:

Waste Description: ACID WASTE - HEAVY METALS

Waste Code:

Waste Description: **REACTIVE ANION WASTES**

Waste Code:

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code:

Waste Description: WASTE OILS & LUBRICANTS

Waste Code:

EMULSIFIED OILS Waste Description:

Waste Code: 262

Waste Description: DETERGENTS/SOAPS

Waste Code:

PHOTOPROCESSING WASTES Waste Description:

Waste Code:

GRAPHIC ART WASTES Waste Description:

Waste Code:

Waste Description: ACID WASTE - OTHER METALS

Waste Code:

ALKALINE WASTES - HEAVY METALS Waste Description:

Waste Code:

OTHER SPECIFIED INORGANICS Waste Description:

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|----------------------|--|-----------------------|---|-----|
| <u>31</u> | 41 of 58 | WNW/186.8 | 66.4 | GVT. OF CANADA - PUBLIC WORKS 17-259 CDN. HYDROGRAPHIC SERV. 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE, PHASE 4 OTTAWA ON K1A 0M3 | GEN |
| PO Box Nun | 1: | | | | |
| Status: Country: | | | | | |
| Generator #: | : | ON0144754 | | | |
| Approval Yr | s: | 94,95,96 | | | |
| SIC Code: | 41 | 8129 OTHER PROTECT | CEDV/ | | |
| SIC Descript | tion: | OTHER PROTECT | . SEKV. | | |
| Details Waste Cod Waste Des | le: | 114 OTHER INORGAN | IC ACID WASTES | | |
| + Waste Cod Waste Des | | 122 ALKALINE WASTE | S - OTHER METALS | | |
| + Waste Cod Waste Des | | 213 PETROLEUM DIST | TILLATES | | |
| + Waste Cod Waste Des | | 263 ORGANIC LABORA | ATORY CHEMICALS | | |
| + Waste Cod Waste Des | | 264 PHOTOPROCESS | ING WASTES | | |
| <u>31</u> | 42 of 58 | WNW/186.8 | 66.4 | GVT OF CAN-HEALTH&WELFARE CAN.MED.16- 295 | GEN |
| | | | | SER.BR.,HEALTH UNIT#7, RM. 136 601 BOOTH ST. (EMR), C/O 301 ELGIN ST OTTAWA ON K1A 0L3 | |
| PO Box Nun | 1. | | | | |
| Status: | | | | | |
| Country: | | 0110005000 | | | |
| Generator #: Approval Yr: | | ON0095609 94,95,96 | | | |
| SIC Code: | 3. | 8635 | | | |
| SIC Descript | tion: | PUB. HEALTH CLII | NICS | | |
| Details | | | | | |
| Waste Cod | | 312 | | | |
| Waste Des | cription: | PATHOLOGICAL V | VASTES | | |
| 31 | 43 of 58 | WNW/186.8 | 66.4 | Stantec Consulting Ltd. 615 BOOTH STREET OTTAWA ON | GEN |
| PO Box Nun Status: Country: Generator #. Approval Yr. SIC Code: SIC Descript | : s: | ON5162599 2010 541710 Research and Deve | elopment in the Physi | cal Engineering and Life Sciences | |
| Details Waste Cod Waste Des | de: | 221 LIGHT FUELS | | | |

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m) WNW/186.8 66.4 MAPPING A(SEE & USE ON2487206)MENT 31 44 of 58 **GEN** 615 BOOTH STREET OTTAWA ON KOA 1KO PO Box Num: Status: Country: ON1932200 Generator #: Approval Yrs: 00,01 SIC Code: 2849 SIC Description: OTHER PRINTING IND. --- Details ---Waste Code: Waste Description: PHOTOPROCESSING WASTES **PUBLIC WORKS CANADA** 31 45 of 58 WNW/186.8 66.4 **GEN** 615 BOOTH STREET CANADIAN HYDROGRAPHIC SERVICE OTTAWA ON K1A 0E6 PO Box Num: Status: Country: ON0144754 Generator #: Approval Yrs: 92,93,97 SIC Code: 8129 SIC Description: OTHER PROTECT. SERV. --- Details ---Waste Code: 114 Waste Description: OTHER INORGANIC ACID WASTES Waste Code: Waste Description: ALKALINE WASTES - OTHER METALS Waste Code: PETROLEUM DISTILLATES Waste Description: Waste Code: ORGANIC LABORATORY CHEMICALS Waste Description: Waste Code: 264 PHOTOPROCESSING WASTES Waste Description: 31 46 of 58 WNW/186.8 66.4 GVT. OF CAN. - ENERGY MINES & RES. **GEN** SVY, MAPPING & R.S., 615 BOOTH ST. C/O 140 PROMENADE DU PORTAGE IV OTTAWA ON K1A 0M3 PO Box Num: Status: Country: Generator #: ON0269504 Approval Yrs: 89,90 SIC Code: 8172 SIC Description: RES. CONS./IND. DEV. --- Details ---

Order No: 20161003159

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Number of Site DΒ Map Key Direction/ Elevation Records Distance (m) 148 Waste Code: Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: Waste Description: ALIPHATIC SOLVENTS Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: 242 HALOGENATED PESTICIDES Waste Description: Waste Code: Waste Description: WASTE OILS & LUBRICANTS Waste Code: Waste Description: ORGANIC LABORATORY CHEMICALS Waste Code: 264 Waste Description: PHOTOPROCESSING WASTES NATURAL RESOURCES CANADA 31 47 of 58 WNW/186.8 66.4 **GEN** 615 BOOTH STREET OTTAWA ON PO Box Num: Status: Country: ON2560242 Generator #: Approval Yrs: 2009 SIC Code: 531310 SIC Description: Real Estate Property Managers --- Details ---

Waste Code: 113

Waste Description: ACID WASTE - OTHER METALS

+

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

+

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

Waste Code: 26

Waste Description: ORGANIC LABORATORY CHEMICALS

+

Waste Code: 331

Waste Description: WASTE COMPRESSED GASES

31 48 of 58 WNW/186.8

GVT. OF CAN.-(OUT OF BUSINESS) COMMUNICATIONS SERVICES 615 BOOTH ST. ROOM G-10

OTTAWA ON K1A 0S7

PO Box Num:

66.4

GEN

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m)

Status: Country:

Generator #: ON0249610 Approval Yrs: 98

SIC Code: 8159

OTHER GEN. ADMIN. SIC Description:

--- Details ---

213 Waste Code:

Waste Description: PETROLEUM DISTILLATES

Waste Code: 252

WASTE OILS & LUBRICANTS Waste Description:

31 49 of 58 WNW/186.8 66.4 GVT. OF CANADA - PUBLIC WORKS

CDN. HYDROGRAPHIC SERV. 615 BOOTH ST.

C/O 140 PROMENADE DU PORTAGE, PHASE 4

OTTAWA ON K1A 0M3

PO Box Num: Status:

Country: Generator #:

ON0144754

90 Approval Yrs: SIC Code: 8129

OTHER PROTECT. SERV. SIC Description:

--- Details ---

Waste Code:

Waste Description: OTHER INORGANIC ACID WASTES

Waste Code:

Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

Waste Description: PHOTOPROCESSING WASTES

NATURAL RESOURCES CANADA 50 of 58 WNW/186.8 66.4 31

615 BOOTH STREET

OTTAWA ON

PO Box Num: Status:

Country: ON2560242 Generator #: Approval Yrs: 2010

SIC Code: 531310 SIC Description: Real Estate Property Managers

--- Details ---

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code:

WASTE COMPRESSED GASES Waste Description:

Waste Code:

ACID WASTE - HEAVY METALS Waste Description:

GEN

GEN

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|----------------------|--|------------------|---|------|
| Waste Code | | 243 PCBS | | | |
| + Waste Code Waste Desc | | 148 INORGANIC LABO | RATORY CHEMIC | CALS | |
| Waste Code Waste Desc | | 213 PETROLEUM DIST | ΓILLATES | | |
| + Waste Code Waste Desc | | 122 ALKALINE WASTE | S - OTHER META | LS | |
| + Waste Code Waste Desc | | 263 ORGANIC LABORA | ATORY CHEMICA | LS | |
| + Waste Code Waste Desc | | 252 WASTE OILS & LU | IBRICANTS | | |
| + Waste Code Waste Desc | | 146 OTHER SPECIFIEI | D INORGANICS | | |
| Waste Code Waste Desc + | | 145 PAINT/PIGMENT/C | COATING RESIDU | ES | |
| Waste Code Waste Desc | | 113 ACID WASTE - OT | HER METALS | | |
| Waste Code Waste Desc | | 121 ALKALINE WASTE | S - HEAVY META | LS | |
| <u>31</u> | 51 of 58 | WNW/186.8 | 66.4 | ENERGY MINES & RESOURCES 615 BOOTH ST. OTTAWA ON | NPCB |
| Company Co Industry: Site Status: | de: | O3091 Energy, Mines & Re | esources (EMR) | | |
| Transaction Inspection De | | 1/21/1991 9/13/1988 | | | |
| 31 | 52 of 58 | WNW/186.8 | 66.4 | Canadian Hydro Graphic Service 615 Booth St Floor 3 Room 311 Ottawa ON K1A 0E6 | SCT |
| Established: Plant Size (ft ^e Employment | | 01-AUG-40 | | | |
| Details Description SIC/NAICS | | Book Publishers 511130 | | | |
| <u>31</u> | 53 of 58 | WNW/186.8 | 66.4 | National Research Council of Canada; SNC Lavalin Engineers and Constructors 615 Booth Street Ottawa ON K1A 0E9 | SPL |
| Ref NO: Contaminant Contaminant Contaminant Incident Caus Incident Dt: | Name: Quantity: | 4577-9P7RKE 38 REFRIGERANT GA 111.6 kg Operator/Human er 2014/09/22 | | | |

Number of Direction/ Elevation Site DΒ Map Key Records Distance (m) (m)

Other Incident Reason:

Incident Summary: National Resources Canada: R 123 to atm

MOE Reported Dt: 2014/09/22 Environmental Impact: Not Anticipated Nature of Impact: Air Pollution

Receiving Medium:

SAC Action Class: Air Spills - Gases and Vapours

Sector Source Type: Other Site Municipality: Ottawa

> 54 of 58 WNW/186.8 66.4 SNC Lavalin Engineers and Constructors 31

615 Booth St. Ottawa ON

SPL

SPL

Order No: 20161003159

Ref NO: 5776-9GNQMJ

Contaminant Code: 38

Contaminant Name: REFRIGERANT GAS, N.O.S. Contaminant Quantity: 0 other - see incident description

Leak/Break Incident Cause: 2014/02/24 Incident Dt: Equipment Failure Incident Reason:

Incident Summary: SNC Lavalin: Unknwn qty (100 + kg) R123 refrigerant to atm

MOE Reported Dt: 2014/02/25 Not Anticipated **Environmental Impact:** Nature of Impact: Air Pollution Receiving Medium:

SAC Action Class: Air Spills - Gases and Vapours

Valve/Fitting/Piping Sector Source Type:

Site Municipality: Ottawa

31 55 of 58 WNW/186.8 66.4 SNC-Lavalin ProFac Facilities Management

615 Booth Street Ottawa ON

Ref NO: 3065-7TBPTD

Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause:

Incident Dt: Incident Reason:

Incident Summary: SNC-Lavalin ProFac: 100 kg Refrigerant to Air

6/24/2009 MOE Reported Dt: **Environmental Impact:** Not Anticipated

Nature of Impact: Receiving Medium:

SAC Action Class: Air Spills - Gases and Vapours

Sector Source Type:

Ottawa Site Municipality:

56 of 58 WNW/186.8 66.4 SNC-Lavalin Profac Inc. 31 **SPL**

615 Booth St. Ottawa ON

Ref NO: 7114-7T6RF9

Contaminant Code: FREON (CFC) Contaminant Name:

Contaminant Quantity:

Incident Cause: Valve / Fitting Leak Or Failure

Incident Dt:

Equipment Failure Incident Reason:

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

Incident Summary: SNC-Lavalin Profac - possible freon spill.

MOE Reported Dt: Environmental Impact: Nature of Impact: Receiving Medium: 6/19/2009 Not Anticipated

Not Anticipated

SAC Action Class: Air Spills - Gases and Vapours

Sector Source Type: Other Site Municipality: Ottawa

31 57 of 58 WNW/186.8 66.4 Natural Resources Canada<UNOFFICIAL>

Mechanical Room, 615 Booth St

SPL

WWIS

Order No: 20161003159

Ottawa ON

Ref NO: 0033-89QM5W

Contaminant Code: n/

Contaminant Name: REFRIGERANT GAS R12

Contaminant Quantity: 13.6 kg

Incident Cause: Incident Dt: Incident Reason: Incident Summary:

SNC Lavalin - R123 lost

MOE Reported Dt: 9/28/2010
Environmental Impact: Not Anticipated

Nature of Impact: Receiving Medium: SAC Action Class: Sector Source Type:

C Action Class: Air Spills - Gases and Vapours

Sector Source Type: Site Municipality:

31 58 of 58 WNW/186.8 66.4

Well ID: 7146321 Construction Date:

Primary Water Use: Not Used Sec. Water Use:

Final Well Status: Abandoned Monitoring and Test Hole

Specific Capacity:

Municipality: OTTAWA CITY

County: OTTAWA-CARLETON

Bore Hole Information

-

Bore Hole ID: 1002996105 **DP2BR:**

Code OB:

Code OB Description:

Open Hole:

Date Completed: 15-MAR-10

Remarks:

 Zone:
 18

 East 83:
 444860

 North 83:
 5027732

UTMRC: 6

UTMRC Description: margin of error : 300 m - 1 km

Location Method: gcode Org CS: UTM83

Elevation: Elevro:

Elevrc Description: Location Source Date: Source Revision Comment: Improvement Location Source: OTTAWA ON

Concession: Concession Name: Easting NAD83: Northing NAD83:

Zone:

I of

UTM Reliability:

DΒ Map Key Number of Direction/ Elevation Site Records Distance (m) (m)

Improvement Location Method:

Supplier Comment: Spatial Status:

Overburden and Bedrock Materials Interval

Formation ID: 1003149217

Layer:

General Color:

Most Common Material: Other Materials: Other Materials: Formation Top Depth: Formation End Depth: Formation End Depth UOM:

m

Annular Space/Abandonment

Sealing Record

1003149219 Plug ID:

Layer:

Plug From: Plug To:

Plug Depth UOM: m

Method of Construction & Well

Use

Method Construction ID: 1003149224 **Method Construction Code: Method Construction:** Boring Other Method Construction: DIAMOND

Pipe Information

Pipe ID: 1003149216

Casing Number:

Comment:

Alt Name:

Construction Record - Casing

1003149221 Casing ID:

Layer:

Open Hole or Material:

Depth From: Depth To: Casing Diameter:

Casing Diameter UOM: cm Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003149222

Layer: Slot:

Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM:

m Screen Diameter UOM: cm Screen Diameter:

Hole Diameter

| Мар Кеу | Number Records | | Direction/ Distance (m) | Elevation (m) | Site | | DB |
|--|-------------------|----------|----------------------------|----------------------|-----------------------------------|----------------------|------|
| Hole ID: Diameter: Depth From: | | | 1003149218 | | | | |
| Depth To: | IOM: | | m | | | | |
| Hole Depth U | | | cm | | | | |
| | | | | | | | |
| | | | | | | | |
| <u>32</u> | 1 of 1 | | W/189.0 | 64.7 | Ottawa ON | | FCS |
| Location: | | | Southeast Quadra | nt | | | |
| Site Name: | | | Booth Street Comp | | | | |
| Departmenta Site Id: | al ld: | | Booth Street Comp | olex, Ottawa, ON | | | |
| Site ia: Property No. | | | 00023387 58480 | | | | |
| Municipality: | | | Ottawa | | | | |
| Census Divis | | | Ottawa | | | | |
| Federal Elec | | | Ottawa Centre | | | | |
| Nearest Pop | ulated Area | : | Ottawa South | | | | |
| Longitude: Latitude: | | | -75.7046 45.4008 | | | | |
| Reporting Or | rganization: | • | Department of Nat | ural Resources | | | |
| Reason for I | | | Federal Real Prop | | | | |
| Est m³ Conta | | | 6295 | | | | |
| Est Ha Conta | | | | | | | |
| Est Tons Col Site Managel | | | Additional assessn | nent | | | |
| Highest Step | | | Detailed Testing P | | | | |
| Action Plan: | | | 201000 | . • 9 | | | |
| Additional In | nfo: | | | | | | |
| Details Medium: | | | Soil | | | | |
| Contamina | nnt: | | | romatic hydrocarbon) | | | |
| + Medium: | | | Soil | | | | |
| Contamina | nnt: | | Metal, metalloid, a | nd organometallic | | | |
| 33 | 1 of 1 | | ESE/192.7 | 73.7 | 788 Bronson | | EHS |
| | | | | | Ottawa ON K1S 4G4 | | - |
| Postal Code: | : | | | | | | |
| City: | | | | | | | |
| Address2: | | | | | | | |
| Address1: Provstate: | | | | | | | |
| Order No.: | | | 20060206001 | | | | |
| Addit. Info O | rdered: | | Fire Insur. Maps a | nd/or Site Plans | | | |
| Report Date: | | | 2/9/2006 | | | | |
| Report Type: | : (!)- | | Custom Report | | | | |
| Search Radio | us (KM): | | 0.25 | | | | |
| 34 | 1 of 1 | | NE/195.8 | 75.6 | | | |
| <u>~·</u> | | | | | ON | | BORE |
| Borehole ID: | | 809487 | | | Туре: | Borehole | |
| Use: | | Geotechr | nical/Geological Inve | estigation | Status: | | |
| Drill Method: | : | 445007 | 15 | | UTM Zone: | 18 | |
| Easting: Location Acc | curacy: | 445227.4 | ю | | Northing: Orig. Ground Elev m: | 5027827.36 -999.9 | |
| LUCAUUII ACC | curacy. | | | | orig. Ground Elev iff: | -333.3 | |

| Map Key | Numbe Record | | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|-----------------|------------------|----------------------------|------------------|---|--|
| Elev. Reliabi Total Depth I Township: Lot: Completion I Primary Wate | m: Date: | 1.5 13-FEB-19 | 89 | | DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use: | 75.2 AH.1 -999.9 |
| Details | | | | | | |
| Stratum ID | : | 218600226 | 5 | | Top Depth(m): | 0.0 |
| Bottom De | pth(m): | 0.1 | | | Stratum Desc: | Asphalt |
| Stratum ID | : | 218600227 | , | | Top Depth(m): | 0.1 |
| Bottom De | pth(m): | 0.4 | | | Stratum Desc: | Grey-Brown Crushed Stone |
| + Stratum ID | <i>:</i> | 218600228 | } | | Top Depth(m): | 0.4 |
| Bottom De | pth(m): | 1.0 | | | Stratum Desc: | Red-Brown to Brown Sand Trace: Si Tr Gr |
| + Stratum ID | <i>:</i> | 218600229 |) | | Top Depth(m): | 1.0 |
| Bottom De | pth(m): | 1.5 | | | Stratum Desc: | Grey Silt - Sand |
| <u>35</u> | 1 of 1 | | NNE/202.5 | 75.0 | ON | BORE |
| Borehole ID: Use: | | 613104 | | | Type: Status: | Borehole |
| Drill Method: Easting: Location Acc Elev. Reliabi | curacy: | 445131 | | | UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: | 18 5027902 74.1 74.3 |
| Total Depth I Township: Lot: | m: | 4.4 | | | Primary Name: Concession: Municipality: | |
| Completion I Primary Wate | | JUN-1971 | | | Static Water Level: Sec. Water Use: | -999.9 |
| Details | | | | | | |
| Stratum ID | : | 218393730 |) | | Top Depth(m): | 0.0 |
| Bottom De | pth(m): | 0.8 | | | Stratum Desc: | ARTIFICIAL. |
| + | | | | | | |
| Stratum ID | | 218393731 | | | Top Depth(m): | 0.8 |
| Bottom De | ptn(m): | 1.2 | | | Stratum Desc: | UNSPECIFIED. DENSE. |
| + Stratum ID | | 218393732 | • | | Top Depth(m): | 1.2 |
| Bottom De | | 2.0 | • | | Stratum Desc: | UNSPECIFIED. DENSE. |
| + | ,(<i>)</i> . | | | | | |
| Stratum ID | : | 218393733 | 3 | | Top Depth(m): | 2.0 |
| Bottom De | pth(m): | 2.9 | | | Stratum Desc: | BEDROCK. |
| + Stratum ID | <i>:</i> | 218393734 | ļ | | Top Depth(m): | 2.9 |
| Bottom De | | 4.4 | | | Stratum Desc: | BEDROCK. 00000 028 00025 020 00040 010 0000000400025013000400422 00025 011 |

Map Key Number of Direction/ Elevation Site DΒ Records Distance (m) (m) SSE/206.7 68.0 Dow's Lake Rd. & Kippewa Drive 36 1 of 1 **EHS** Ottawa ON Postal Code: City: Address2: Address1: Provstate: 20111026044 Order No.: Addit. Info Ordered: Fire Insur. Maps and/or Site Plans; Aerial Photos; City Directory Report Date: 11/4/2011 **Custom Report** Report Type: Search Radius (km): 0.25 **37** 1 of 6 WNW/213.7 67.0 SNC Lavalin **GEN** 601 Booth St. Ottawa ON PO Box Num: Status: Country: ON6935214 Generator #: Approval Yrs: 2013 SIC Code: 531310 SIC Description: REAL ESTATE PROPERTY MANAGERS --- Details ---Waste Code: 145 Waste Description: PAINT/PIGMENT/COATING RESIDUES 2 of 6 WNW/213.7 67.0 SNC Lavalin 37 **GEN** 601 Booth St. Ottawa ON PO Box Num: Status: Country: ON6935214 Generator #: Approval Yrs: 2012 SIC Code: 531310 SIC Description: Real Estate Property Managers 3 of 6 WNW/213.7 67.0 GVT. OF CAN. - NATURAL RESOURCES 37 GEN CANADA Room 721 601 Booth Street OTTAWA ON PO Box Num: Status: Country: Generator #: ON0269503 Approval Yrs: 2013 SIC Code: 911310 SIC Description: --- Details ---Waste Code: 146 Waste Description: OTHER SPECIFIED INORGANICS Waste Code: Waste Description: ALKALINE WASTES - OTHER METALS

Number of Site DΒ Map Key Direction/ Elevation Records Distance (m) 213 Waste Code:

Waste Description: PETROLEUM DISTILLATES

Waste Code:

Waste Description: **EMULSIFIED OILS**

Waste Code:

Waste Description: **OIL SKIMMINGS & SLUDGES**

Waste Code:

145

PAINT/PIGMENT/COATING RESIDUES Waste Description:

Waste Code:

Waste Description: AROMATIC SOLVENTS

Waste Code:

Waste Description: ALKALINE WASTES - HEAVY METALS

Waste Code:

Waste Description: ALIPHATIC SOLVENTS

Waste Code:

Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 267

ORGANIC ACIDS Waste Description:

Waste Code:

OTHER INORGANIC ACID WASTES Waste Description:

Waste Code:

INORGANIC LABORATORY CHEMICALS Waste Description:

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

Waste Description: HALOGENATED SOLVENTS

Waste Code:

Waste Description: ACID WASTE - HEAVY METALS

Waste Code: 331

Waste Description: WASTE COMPRESSED GASES

WNW/213.7 GVT. OF CAN. - NATURAL RESOURCES **37** 4 of 6 67.0

CANADA

Room 721 601 Booth Street OTTAWA ON K1A 0E8

PO Box Num:

Registered Status: Country: Canada ON0269503 Generator #: Approval Yrs: As of Sep 2016

SIC Description:

--- Details ---

SIC Code:

Waste Code: 112 C

Waste Description: Acid solutions - containing heavy metals

Waste Code:

Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)

GEN

Number of Direction/ Site DΒ Map Key Elevation Records Distance (m)

Waste Code: 145 I

Waste Description: Wastes from the use of pigments, coatings and paints

Waste Code:

Waste Description: Other specified inorganic sludges, slurries or solids

Waste Code:

Waste Description: Aliphatic solvents and residues

Waste Code: 212 I

Waste Description: Aliphatic solvents and residues

Waste Code: 213 I

Waste Description: Petroleum distillates

Waste Code: 148 T

Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 R

Waste Description: Misc. wastes and inorganic chemicals

Waste Code:

Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 C

Misc. wastes and inorganic chemicals Waste Description:

Waste Code: 148 B

Waste Description: Misc. wastes and inorganic chemicals

Waste Code:

Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 252 L

Waste Description: Waste crankcase oils and lubricants

Waste Code:

Waste Description: Halogenated solvents and residues

Waste Code:

Waste Description: Waste compressed gases including cylinders

Waste Code: 331 I

Waste Description: Waste compressed gases including cylinders

Waste Code:

Waste Description: Waste compressed gases including cylinders

Waste Code: 263 I

Waste Description: Misc. waste organic chemicals

263 C Waste Code:

Waste Description: Misc. waste organic chemicals

Waste Code:

Waste Description: Misc. waste organic chemicals

37 5 of 6 WNW/213.7 67.0 **BROOKFIELD GLOBAL INTERGRATED**

GEN

SOLUTIONS 601 Booth St. Ottawa ON K1A0E8

PO Box Num:

Registered Status: Country:

Map Key Number of Records Direction/ Distance (m) (m)

Generator #: ON6935214
Approval Yrs: As of Sep 2016

SIC Code: SIC Description:

--- Details ---Waste Code:

Waste Description:

Wastes from the use of pigments, coatings and paints

37 6 of 6 WNW/213.7 67.0 601 Booth St. Ottawa ON

Ref NO: 7621-9MZGLA

Contaminant Code: 24

Contaminant Name: ETHYLENE GLYCOL (ANTIFREEZE)

145 I

Contaminant Quantity: 8 L

Incident Cause:Leak/BreakIncident Dt:2014/08/12Incident Reason:Maintenance

Incident Summary: SNC Lavalin: 8 L of ethylene glycol to sani drain

MOE Reported Dt: 2014/08/15
Environmental Impact: Confirmed

Nature of Impact: Surface Water Pollution

Receiving Medium:

SAC Action Class: Land Spills

Sector Source Type: Pipeline/Components

Site Municipality: Ottawa

38 1 of 1 WSW/221.2 64.7 Carling Avenue from O-Train to Bronson Ave.

Ottawa ON

EHS

Postal Code: City: Address2: Address1:

Address1: Provstate: Order No.:

Order No.: 20100809023

Addit. Info Ordered:

Report Date: 8/19/2010 Report Type: Custom Report

Search Radius (km): 0.25

39 1 of 1 NNE/226.6 74.0 Enbridge Gas Distribution Inc. SPL 680 Bronson Ave

Ottawa ON

Order No: 20161003159

Ref NO: 8034-999KYU

Contaminant Code: 35

Contaminant Name: NATURAL GAS (METHANE)
Contaminant Quantity: 0 other - see incident description

Incident Cause:Leak/BreakIncident Dt:2013/07/03Incident Reason:Equipment Failure

Incident Summary: TSSA: above grd gas release, Media ended

MOE Reported Dt:2013/07/03Environmental Impact:ConfirmedNature of Impact:Air Pollution

Receiving Medium:

SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill

Sector Source Type: Pipeline/Components

Site Municipality: Ottawa

| Мар Кеу | Numbe Record | | Elevation (m) | Site | | DB |
|---|--|------------------------------|------------------|---|---------------------------------------|------|
| <u>40</u> | 1 of 2 | ESE/231.2 | 72.6 | OTTAWA CITY, DESIGI SECOND AVE./BRONS OTTAWA ON | N & CONSTRUCTION DIV. ON AVE., CSO | CA |
| Certificate # | | 3-0387-98- 98 | | | | |
| Issue Date: | | 5/12/1998 | | | | |
| Approval Tyl | pe: | Municipal sewage Approved | | | | |
| Application | | 7.pp1070d | | | | |
| Client Name. Client Addre | | | | | | |
| Client City: | | | | | | |
| Client Postal Project Desc | | | | | | |
| Contaminan | ts: | | | | | |
| Emission Co | ontrol: | | | | | |
| <u>40</u> | 2 of 2 | ESE/231.2 | 72.6 | R.M. OF OTTAWA-CAR SECOND AVE/BRONSO OTTAWA ON | _ | CA |
| Certificate # | <u>.</u> | 7-0245-98- | | | | |
| Application | | 98 | | | | |
| Issue Date: Approval Ty | ne: | 4/22/1998 Municipal water | | | | |
| Status: | | Approved | | | | |
| Application Client Name | | | | | | |
| Client Addre | | | | | | |
| Client City: Client Posta | l Code: | | | | | |
| Project Desc | cription: | | | | | |
| Contaminant | | | | | | |
| | | | | | | |
| <u>41</u> | 1 of 1 | N/233.7 | 74.9 | ON | | BORE |
| | | 040400 | | | 5 | |
| Borehole ID: Use: | • | 613109 | | Type: Status: | Borehole | |
| Drill Method | : | | | UTM Zone: | 18 | |
| Easting: Location Acc | curacy: | 445071 | | Northing: Orig. Ground Elev m: | 5027942 74.2 | |
| Elev. Reliabi | ility Note: | | | DEM Ground Elev m: | 74.2 | |
| | m: | 3.7 | | Primary Name: Concession: | | |
| Total Depth | | | | | | |
| | | | | Municipality: | | |
| Total Depth I Township: | Date: | JUN-1971 | | | -999.9 | |
| Total Depth I Township: Lot: Completion | Date: er Use: | JUN-1971 | | Municipality: Static Water Level: | -999.9 | |
| Total Depth of Township: Lot: Completion of Primary Wate Details Stratum ID | Date: er Use: | JUN-1971 218393750 | | Municipality: Static Water Level: Sec. Water Use: Top Depth(m): | 0.0 | |
| Total Depth of Township: Lot: Completion of Primary Wate Details Stratum ID Bottom De | Date: er Use: | | | Municipality: Static Water Level: Sec. Water Use: | | |
| Total Depth of Township: Lot: Completion of Primary Wate Details Stratum ID Bottom De | Date: er Use: : : epth(m): | 218393750 1.0 | | Municipality: Static Water Level: Sec. Water Use: Top Depth(m): Stratum Desc: | 0.0 ARTIFICIAL. | |
| Total Depth of Township: Lot: Completion of Primary Wate Details Stratum ID Bottom De | Date: er Use: : epth(m): | 218393750 | | Municipality: Static Water Level: Sec. Water Use: Top Depth(m): | 0.0 | |

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

Stratum ID: 218393752 **Top Depth(m):** 1.6

Bottom Depth(m): 2.2 Stratum Desc: BEDROCK.

+

Stratum ID: 218393753 **Top Depth(m):** 2.2

Bottom Depth(m): 3.7 **Stratum Desc:** BEDROCK. 00000 020 00032 008

00000005ENSE. 00040 010 000000040002501300040044

SPL

Order No: 20161003159

42 1 of 1 ESE/236.8 72.9 FIRST FUEL

812 BRONSON TANK TRUCK (CARGO)

OTTAWA CITY ON K1S 4G4

Ref NO: 45923

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: OTHER CONTAINER LEAK

Incident Dt: 1/22/1991

Incident Reason: EQUIPMENT FAILURE

Incident Summary: FIRST FUELS TANKER TRUCK-50 L FURNACE OIL TO STREET.

MOE Reported Dt:1/22/1991Environmental Impact:POSSIBLENature of Impact:Soil contamination

Receiving Medium: LAND

SAC Action Class: Sector Source Type:

Site Municipality: 20101

43 1 of 1 NE/241.0 74.0 Hydro-Ottawa SPL

272 Powell Street Ottawa ON K1S 2A5

Ref NO: 4110-5NDTNA

Contaminant Code: 43

Contaminant Name: NON-HAZARDOUS SOLID (N.O.S.)
Contaminant Quantity: other - see incident description

Incident Cause:

Incident Dt: 6/10/2003

Incident Reason:

Incident Summary: Unknown amt transformer oil to ground. Cleaning.

MOE Reported Dt:6/10/2003Environmental Impact:Not AnticipatedNature of Impact:Soil Contamination

Receiving Medium:LandSAC Action Class:SpillsSector Source Type:TransformerSite Municipality:Ottawa

Unplottable Summary

Total: 82 Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|----|---|--|----------------|--------|
| CA | OTTAWA CITY, DESIGN & CONSTRUCTION DIV. | BOOTH ST./LEBRETON ST. CSO | OTTAWA CITY ON | |
| CA | OTTAWA CITY, DESIGN & CONSTRUCTION DIV. | PLAZA BRIDGE STORM SEWERS | OTTAWA ON | |
| CA | PUBLIC WORKS CANADA | LABORATORY SERVICES | OTTAWA CITY ON | |
| CA | Taggart Residential Developments Ltd. | | Ottawa ON | |
| CA | Taggart Construction Limited | Mobile Facility | Ottawa ON | |
| CA | Taggart Residential Developments Ltd. | | Ottawa ON | |
| CA | Taggart Residential Developments Ltd. | | Ottawa ON | |
| CA | Taggart Construction Limited | Manotick River Crossing and Connection | Ottawa ON | |
| CA | Ottawa-Carleton District School Board | | Ottawa ON | |
| CA | Taggart Residential Developments Ltd. | | Ottawa ON | |
| CA | Taggart Residential Developments Ltd. | | Ottawa ON | |
| CA | Taggart Construction Limited | Hillside Gdns Long Island, Hartwell, Driscoll, Hillcrest, McLean, Claire, Jean P | Ottawa ON | |
| CA | City of Ottawa | Carling Ave | Ottawa ON | |
| CA | L.SIPOLINS | SOUTH OF CARLING AVE. | OTTAWA CITY ON | |
| CA | City of Ottawa | Carling Avenue (Road allownce) | Ottawa ON | |
| CA | R.M. OF OTTAWA-CARLETON TRANSPORTATION | BOOTH ST. | OTTAWA CITY ON | |
| CA | R.M. OF OTTAWA-CARLETON | BOOTH ST./LEBRETON ST. | OTTAWA CITY ON | |

| CONV | Taggart Construction Limited | | Ottawa ON | |
|------|---|--|------------|---------|
| EBR | Taggart Construction Limited | | Ottawa ON | |
| ECA | Glenn Guilbault | Bell Street | Ottawa ON | |
| ECA | Taggart Corporation Ltd. | Ottawa | ON | |
| ECA | City of Ottawa | Carling Avenue | Ottawa ON | |
| ECA | City of Ottawa | Bronson Ave between Laurier Ave and Arlington Ave and Gladstone Ave between Camb | Ottawa ON | |
| EHS | | Carling Ave N Of, Grandview Rd | Ottawa ON | |
| EHS | | Carling Ave N of Grandview Dr W | Ottawa ON | |
| GEN | GVT OF CAN- HEALTH&WELFARE CAN.MED.16-303 | SER.BR,UNIT#25,RM B-16, CARLING AVE. K.W. NEATBY BLDG., C/O 301 ELGIN ST. | OTTAWA ON | K1A 0L3 |
| GEN | GVT. OF CANADA - PUBLIC WORKS | BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL | OTTAWA ON | K1A0M3 |
| GEN | GVT. OF CANADA - PUBLIC WORKS | BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 | OTTAWA ON | K1A 0M3 |
| GEN | GVT. OF CANADA - PUBLIC WORKS | BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11, HULL | OTTAWA ON | K1A0M3 |
| GEN | GVT. OF CANADA - PUBLIC WORKS 18-279 | NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V | OTTAWA, ON | K1A 0M3 |
| GEN | HEALTH AND WELFARE CANADA | SHIRLEY'S BAY (CRC) HEALTH UNIT #19 BUILDING #4, ROOM 100 | OTTAWA ON | K2H 852 |
| GEN | HEALTH AND WELFARE CANADA | SIR FREDERICK BANTING BLDG. HEALTH UNIT #34, ROOM 201 | OTTAWA ON | K1A 0L3 |
| GEN | City of Ottawa | O-Train Rail Corridor Brookfield & Gladstone Sidings | Ottawa ON | |
| GEN | GVT. OF CANADA - PUBLIC WORKS | NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V | OTTAWA, ON | K1A 0M3 |
| GEN | NATIONAL RESEARCH COUNCIL 18-109 | PUBLIC WORKS CANADA ENV. SERVICES CFB OTTAWA BUILDINGS U61, U62, U66 | OTTAWA ON | |
| GEN | PUBLIC WORKS CANADA - NATIONAL DEFENCE | CF PHOTO UNIT NRC MONTREAL ROAD, CAMPUS BLDG. M23 | OTTAWA ON | K1A 0K2 |
| GEN | GVT. OF CANADA - PUBLIC WORKS | BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL | OTTAWA ON | K1A0M3 |

| GEN | City of Ottawa | Bronson Avenue between Arlington - Laurier W | Ottawa ON | |
|------|---|---|----------------|---------|
| GEN | City of Ottawa | Bronson Avenue between Arlington - Laurier W | Ottawa ON | |
| NPCB | PUBLIC WORKS CANADA | TUNNEY'S PASTURE COMPLEX CENTRAL HEA TI NG PLANT | OTTAWA ON | K1A 0M3 |
| NPCB | PUBLIC WORKS CANADA | TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILD | Ottawa ON | |
| NPCB | PUBLIC WORKS CANADA | CENTRAL EXPERIMENTAL FARM; K W NEETBY BUILDING/ROO | OTTAWA ON | |
| NPCB | PUBLIC WORKS CANADA | TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILDING | OTTAWA ON | K1A 0M3 |
| NPCB | PUBLIC WORKS CANADA | TUNNEY'S PASTURE COMPLEX | Ottawa ON | |
| SPL | HOTEL/MOTEL | CARLING AVENUE (N.O.S.) | OTTAWA CITY ON | |
| SPL | OC TRANSPO | CARLING AVE. BETWEE COLE AVE. & MAITLAND AVE. MOTOR VEHICLE (OPERATING FLUID) | OTTAWA CITY ON | |
| SPL | CONSTRUCTION COMPANY | BRONSON AVENUE AT RIDEAU RIVER. | OTTAWA CITY ON | |
| SPL | O.C. TRANSPO | ON CARLING AVE. IN BETWEEN PARKDALE & HOLLAND ST. OTTAWA SITE 1500 ST. LAURENT BOULEVARD | OTTAWA CITY ON | |
| SPL | | Carling Ave, EB and Melrose (centre of intersection) | Ottawa ON | |
| SPL | Industry Canada - Communications Research Centre | Carling Avenue (Between Moody and March Road) | Ottawa ON | |
| SPL | Enbridge Gas Distribution Inc. | Bronson Avenue near Fourth Ave. | Ottawa ON | |
| SPL | | RIDEAU RIVER, AT BRONSON AVE NEAR \ | OTTAWA CITY ON | |
| SPL | | Bronson Ave | Ottawa ON | |
| SPL | LECLAIR FUELS LTD. | BRONSON AVENUE TANK TRUCK (CARGO) | OTTAWA CITY ON | |
| SPL | City of Ottawa | Bronson St E, north of Catherine St | Ottawa ON | |
| SPL | | Graham Creek outfall near Carling Av. <unofficial></unofficial> | Ottawa ON | |
| SPL | PUC | BOOTH STREET AT TRANSITWAY WHERE ALBERT AND SLATER JOIN MOTOR VEHICLE (OPERATING FLUID) | OTTAWA CITY ON | |
| SPL | Deep Foundations; SNC-Lavalin Constructors (Pacific) Inc. | Boothe Street Bridge Pier #1 @ transit way | Ottawa ON | |

| SPL | Taggart Construction Limited | Field adjacent to Findlay Creek <unofficial></unofficial> | Ottawa ON |
|-----|--|--|----------------|
| SPL | City of Ottawa | CARLING AVE., IN FRONT OF WESTGATE SHOPPING CENTRE-UNOFFICIAL> | Ottawa ON |
| SPL | | Carling Ave near Woodroffe CARLING AVE <unofficial></unofficial> | Ottawa ON |
| SPL | OTTAWA TRANSIT | CARLING AVENUE BUS | OTTAWA ON |
| SPL | PUBLIC WORKS CANADA | VARIOUS LOCATION GOVERNMENT BUILDING OR PROPERTY | OTTAWA CITY ON |
| SPL | FIRST FUEL | TANK TRUCK (CARGO) | OTTAWA CITY ON |
| SPL | TAGGART SERVICES | TRAILER IN YARD TRANSPORT TRUCK (CARGO) | OTTAWA CITY ON |
| SPL | DEPT OF NATIONAL DEFENSE | AIRPORT (MILITARY RAMP) AIRCRAFT | OTTAWA CITY ON |
| SPL | DEPT OF NATIONAL DEFENSE | OTTAWA AIRPORT AIRCRAFT | OTTAWA CITY ON |
| SPL | DEPARTMENT OF NATIONAL DEFENSE | ROCKCLIFFE SITE FUEL STORAGE TANK | OTTAWA CITY ON |
| SPL | OTTAWA-CARLETON, R.M. OF | OTTAWA RIVER, FROM TRIBUTARY AT THE BOOTH ST. REGULATOR SANITARY SEWER SYSTEM | OTTAWA CITY ON |
| SPL | City of Ottawa | Booth Street | Ottawa ON |
| SPL | OTTAWA-CARLETON, R.M. OF | BOOTH ST GATE SANITARY SEWER SYSTEM | OTTAWA CITY ON |
| SPL | OTTAWA-CARLETON, R.M. OF | ON THE TRANSITWAY EASTBOUND AT BOOTH AND LEBRETON MOTOR VEHICLE (OPERATING FLUID) | OTTAWA CITY ON |
| SPL | Ottawa Hydro <unofficial></unofficial> | ON BELL ST. E. OF WESTRIDGE DR. ACROSS FROM LOT 173 IN STITTSVILLE <unofficial></unofficial> | Ottawa ON |
| SPL | Taggart Construction Limited | Closest accessible street is the south end of Kelly Farm Dr. | Ottawa ON |
| SPL | PUBLIC WORKS CANADA | TILLEY BUILDING CONFEDERATION HEIGHTS | OTTAWA CITY ON |
| SPL | DEPARTMENT OF NATIONAL DEFENSE | DND UPLANDS AIR BASE, HANGERS # 17, 18 & 19. TRANSFORMER | OTTAWA CITY ON |
| SPL | Taggart Construction Limited | Findlay Creek Subdivision | Ottawa ON |
| SPL | DEPARTMENT OF NATIONAL DEFENSE | CONNAUGHT RANGES & TRAINING CENTRE - NATIONAL DEFENSE SITE | OTTAWA CITY ON |
| SPL | | SNC Lavalin Profac | Ottawa ON |

| SPL | TRANSPORT TRUCK | HWY 16 MOTOR VEHICLE (OPERATING FLUID) | OTTAWA CITY ON |
|-----|------------------|---|----------------------------|
| SPL | HEATING OIL TANK | FARM OFF HWY 16 PETROLEUM SECTOR _ONLY_ | OTTAWA-CARLETON R.M. ON |
| SPL | NATIONAL DEFENCE | SHERLY'S BAY (PROPERTY) OFF CARLING AVE. FUEL STORAGE TANK | OTTAWA CITY ON |

Unplottable Report

Site: OTTAWA CITY, DESIGN & CONSTRUCTION DIV.

BOOTH ST./LEBRETON ST. CSO OTTAWA CITY ON

Database: CA

Certificate #: 3-0216-99-Application Year: 99

Issue Date: 4/23/1999
Approval Type: Municipal sewage
Status: Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

<u>Site:</u> OTTAWA CITY, DESIGN & CONSTRUCTION DIV. PLAZA BRIDGE STORM SEWERS OTTAWA ON

Database: CA

 Certificate #:
 3-0318-98

 Application Year:
 98

 Issue Date:
 4/30/1998

 Approval Type:
 Municipal sewage

 Status:
 Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

Emission Control:

Site: PUBLIC WORKS CANADA

LABORATORY SERVICES OTTAWA CITY ON

Database: CA

Certificate #:8-4116-87-Application Year:87Issue Date:8/26/1987Approval Type:Industrial airStatus:Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code:

Project Description: LAB EXHAUST

Contaminants: Chromium (Di-, Tri-, Hexavalent Forms), Other Organic Compounds, Methyl Alcohol, Hexane, Other Organic

Compounds, Other Organic Compounds, Cyclohexane

Emission Control: Absolute Filters

Site: Taggart Residential Developments Ltd.

Database:

Order No: 20161003159

Ottawa ON

Certificate #: 0092-6MUKH2

Application Year:2006Issue Date:3/13/2006

Approval Type: Municipal and Private Sewage Works

Status:

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description:

Contaminants: Emission Control: Municipal and Private Sewage Work Revoked and/or Replaced

<u>Site:</u> Taggart Construction Limited Mobile Facility Ottawa ON Database:

 Certificate #:
 0636-7KEL2F

 Application Year:
 2008

 Issue Date:
 11/19/2008

 Approval Type:
 Air

 Status:
 Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

Emission Control:

<u>Site:</u> Taggart Residential Developments Ltd. Ottawa ON Database: CA

 Certificate #:
 1047-6MPLMW

 Application Year:
 2006

 Issue Date:
 3/24/2006

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:

<u>Site:</u> Taggart Residential Developments Ltd. Ottawa ON Database:

Order No: 20161003159

 Certificate #:
 1090-89DRC4

 Application Year:
 2010

 Issue Date:
 9/23/2010

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:**

Taggart Construction Limited Site:

Manotick River Crossing and Connection Ottawa ON

Database: CA

1811-7Q2HVN Certificate #: 2009 Application Year: Issue Date: 3/20/2009

Industrial Sewage Works Approval Type:

Approved Status:

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: **Emission Control:**

Site: Ottawa-Carleton District School Board Ottawa ON

3668-7ZNLYJ Certificate #: Application Year: 2010 Issue Date: 2/11/2010 Approval Type: Air Approved Status:

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

Emission Control:

Taggart Residential Developments Ltd. Site: Ottawa ON

Certificate #: 4595-77ZKND Application Year: 2007 10/15/2007 Issue Date:

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: Taggart Residential Developments Ltd. Ottawa ON

Certificate #: 7167-6SJU4P

Application Year: 2006 Issue Date: 8/17/2006 Database:

Database: CA

Database: CA

Order No: 20161003159

Approval Type: Municipal and Private Sewage Works

Status:

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: **Emission Control:**

Approved

Site: **Taggart Construction Limited**

Hillside Gdns Long Island, Hartwell, Driscoll, Hillcrest, McLean, Claire, Jean P Ottawa ON

Database:

Certificate #: 7701-7PURU5

2009 Application Year: 3/20/2009 Issue Date:

Approval Type: Industrial Sewage Works Approved

Status:

Application Type: Client Name: Client Address: Client City:

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

Site: City of Ottawa

Carling Ave Ottawa ON

Database: CA

2472-8GRQTN Certificate #:

Application Year: 2011 5/20/2011 Issue Date:

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: L.SIPOLINS

SOUTH OF CARLING AVE. OTTAWA CITY ON

Certificate #: 7-1008-85-006

Application Year: 85 Issue Date:

11/15/85 Municipal water Approval Type: Status: Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code: **Project Description:** Contaminants: **Emission Control:**

Database:

Order No: 20161003159

City of Ottawa Site:

Carling Avenue (Road allownce) Ottawa ON

Database: CA

Certificate #: 3615-6QHRAR

2006 Application Year: Issue Date: 6/13/2006

Municipal and Private Sewage Works Approval Type: Approved

Status:

Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description:

Contaminants: **Emission Control:**

Site:

R.M. OF OTTAWA-CARLETON TRANSPORTATION

Database: CA

BOOTH ST. OTTAWA CITY ON

7-1059-88-Certificate #: Application Year: 88 7/13/1988 Issue Date: Municipal water Approval Type: Status: Approved Application Type:

Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants:

Emission Control:

Site: R.M. OF OTTAWA-CARLETON

BOOTH ST./LEBRETON ST. OTTAWA CITY ON

CA

Certificate #: 7-0124-99-Application Year: 99 3/24/1999 Issue Date: Approval Type: Municipal water Status: Approved

Application Type: Client Name: Client Address: Client City: Client Postal Code:

Project Description: Contaminants: **Emission Control:**

Taggart Construction Limited Site:

Ottawa ON

Database: **CONV**

Order No: 20161003159

Database:

File No.: 012802

Publication Title: Publication City: UrI: Crown Brief No.: **Ministry District:**

Region: Description: Taggart Construction Limited, Paterson Group Inc. and Robert Passmore have been fined \$5,000 each, totalling \$15,000 plus a victim fine surcharge, after pleading guilty on January 15, 2009 to violations under the Ontario Water Resources Act. Taggart Construction Limited and Paterson Group Inc. were convicted of failing to comply with a Provincial Officer Order by taking more than 50,000 litres of water per day, and Mr. Passmore was convicted of giving false or misleading information to the ministry. The parties were given six months to pay the fine. The Court heard that Taggart Construction Limited was contracted by a developer to install municipal services at a subdivision in Ottawa which required dewatering activities. After being issued a Provincial Officer Order to restrict water taking activities to below 50,000 litres per day until a permit had been obtained, Taggart hired Paterson Group Inc. to submit an application for the permit. Taggart then pumped over 50,000 litres of water based on information provided by Paterson Group employee, Mr. Passmore, that the go ahead to pump had been given when a permit had yet to be issued. In an interview with ministry investigators, Mr. Passmore denied giving Taggart verbal approval to pump in excess of 50,000 litres per day. Taggart Construction Limited, Paterson Group Inc. and Mr. Passmore were charged following an investigation by the Ministry of the Environment's Investigations and Enforcement Branch.

--- Details ---Publication Date:

Date Charged: January 15, 2009

 Count:
 1

 Act:
 OWRA

 Fine:
 \$5,000

 Act/Regulation/Section:
 OWRA

Charge Disposition: fine, victim fine surcharge

Site: Taggart Construction Limited

Ottawa ON

Database: EBR

Year: 2007

Date:

EBR Registry No.:IA07E0165Ministry Ref. No.:8556-6XWUA3Notice Type:Instrument Proposal

Instrument Type: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9

Proposal Date:

Location: Mobile Facility Ottawa Ontario

Proponent Address: 3187 Albion Rd S Ottawa Ontario K1V 8Y3

Site: Glenn Guilbault

Bell Street Ottawa ON

Database: ECA

Record Type: PDF URL:

Full Address: Bell Street City of Ottawa

 CofA Number:
 6844-9PALMX

 Date:
 9/26/14

 Status:
 Approved

Project Type: Municipal and Private Sewage

<u>Site:</u> Taggart Corporation Ltd.

Ottawa ON

Database:

Record Type: PDF URL: Full Address:

CofA Number:1174-96MSDFDate:19-APR-13Status:ApprovedProject Type:Industrial Sewage

Site: City of Ottawa

Database: ECA

Order No: 20161003159

Carling Avenue Ottawa ON

Record Type:

PDF URL:

Full Address:Carling AvenueCofA Number:3723-9ATJC6Date:30-AUG-13Status:Approved

Project Type: Municipal and Private Sewage

Site: City of Ottawa

Bronson Ave between Laurier Ave and Arlington Ave and Gladstone Ave between Camb Ottawa ON

Database: ECA

Record Type: PDF URL: Full Address:

 CofA Number:
 3535-8T9LDY

 Date:
 4/12/2012

 Status:
 Approved

Project Type: Municipal and Private Sewage

Site:

Carling Ave N Of, Grandview Rd Ottawa ON

Database: EHS

Postal Code: City: Address2: Address1: Provstate:

Order No.: 20051020002

Addit. Info Ordered:

Report Date:10/18/2005Report Type:Site ReportSearch Radius (km):0.25

<u>Site:</u>

Carling Ave N of Grandview Dr W Ottawa ON

Database: EHS

Postal Code: City: Address2: Address1:

 Provstate:
 20051017043

Addit. Info Ordered:

Report Date:10/18/2005Report Type:Site ReportSearch Radius (km):0.25

Site:

GVT OF CAN-HEALTH&WELFARE CAN.MED.16-303

SER.BR,UNIT#25,RM B-16, CARLING AVE. K.W. NEATBY BLDG., C/O 301 ELGIN ST. OTTAWA ON K1A 0L3

Database: GEN

Order No: 20161003159

PO Box Num: Status: Country:

 Generator #:
 ON0095617

 Approval Yrs:
 92,93,94,95,96,97

SIC Code: 8635

SIC Description: PUB. HEALTH CLINICS

--- Details ---

Waste Code: 312

Waste Description: PATHOLOGICAL WASTES

Site: GVT. OF CANADA - PUBLIC WORKS

BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL OTTAWA ON

K1A0M3

PO Box Num: Status:

Country:

Generator #:

ON0144725

Approval Yrs: 89

SIC Code: 4999

SIC Description: OTHER UTILITY IND.

--- Details ---

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 221

Waste Description: LIGHT FUELS

+

Waste Code: 222

Waste Description: HEAVY FUELS

Site: GVT. OF CANADA - PUBLIC WORKS

BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 OTTAWA ON K1A 0M3

Database: GEN

Database: GEN

PO Box Num:

Status:

Country:

 Generator #:
 ON0144725

 Approval Yrs:
 86,90

 SIC Code:
 0000

SIC Description: *** NOT DEFINED ***

--- Details ---

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 221

Waste Description: LIGHT FUELS

+

Waste Code: 222

Waste Description: HEAVY FUELS

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

Site: GVT. OF CANADA - PUBLIC WORKS

BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11, HULL OTTAWA ON

K1A0M3

PO Box Num: Status:

Country:

Generator #: ON0144725

Approval Yrs: 87 SIC Code: 0000

SIC Description: *** NOT DEFINED ***

Site: GVT. OF CANADA - PUBLIC WORKS 18-279

NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V OTTAWA, ON

K1A 0M3

Database: GEN

Order No: 20161003159

Database:

GEN

PO Box Num: Status: Country:

ON0129409 Generator #: Approval Yrs: 94,95 SIC Code: 8551

MUSEUMS/ARCHIVES SIC Description:

--- Details ---

148 Waste Code:

Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code:

WASTE OILS & LUBRICANTS Waste Description:

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code:

ALKALINE WASTES - OTHER METALS Waste Description:

Waste Code:

Waste Description: PAINT/PIGMENT/COATING RESIDUES

Site: HEALTH AND WELFARE CANADA

SHIRLEY'S BAY (CRC) HEALTH UNIT #19 BUILDING #4, ROOM 100 OTTAWA ON K2H 852

Database: **GEN**

PO Box Num:

Status: Country:

Generator #: ON0095614 Approval Yrs: 98 SIC Code: 8635

SIC Description: PUB. HEALTH CLINICS

--- Details ---

Waste Code:

Waste Description: PATHOLOGICAL WASTES

HEALTH AND WELFARE CANADA Site:

SIR FREDERICK BANTING BLDG. HEALTH UNIT #34, ROOM 201 OTTAWA ON K1A 0L3

Database: **GEN**

PO Box Num: Status: Country:

ON0095621 Generator #: Approval Yrs: 98 SIC Code: 8635

PUB. HEALTH CLINICS SIC Description:

--- Details ---

312 Waste Code:

Waste Description: PATHOLOGICAL WASTES

Site: City of Ottawa

O-Train Rail Corridor Brookfield & Gladstone Sidings Ottawa ON

Database: **GEN**

Order No: 20161003159

PO Box Num: Status:

Country:

ON8846477 Generator #: Approval Yrs: 2013 SIC Code: 482114

SIC Description:

--- Details ---

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

+

Waste Code: 221

Waste Description: LIGHT FUELS

Site: GVT. OF CANADA - PUBLIC WORKS

NATIONAL AVIATION MUSEUM, ROCKCLIFFE AB C/O 140 PROMENADE DU PORTAGE, PHASE 1V OTTAWA, ON

K1A OM3

PO Box Num: Status: Country:

 Generator #:
 ON0129409

 Approval Yrs:
 86,87,88,89,90

SIC Code: 0000

SIC Description: *** NOT DEFINED ***

--- Details ---

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

Site: NATIONAL RESEARCH COUNCIL 18-109

PUBLIC WORKS CANADA ENV. SERVICES CFB OTTAWA BUILDINGS U61, U62, U66 OTTAWA ON

Database: GEN

Order No: 20161003159

Database:

GEN

PO Box Num:

Status: Country: Generator #: Approval Yrs:

ON0195803 92,93,94,95,96,97

SIC Code: 8176

SIC Description: RESEARCH ADMIN.

--- Details ---

Waste Code: 112

Waste Description: ACID WASTE - HEAVY METALS

+

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

+

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

+

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

+

Waste Code: 221

Waste Description: LIGHT FUELS

+

Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

+

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 253

Waste Description: EMULSIFIED OILS

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

<u>Site:</u> PUBLIC WORKS CANADA - NATIONAL DEFENCE

CF PHOTO UNIT NRC MONTREAL ROAD, CAMPUS BLDG. M23 OTTAWA ON K1A 0K2

Database: GEN

Database:

Order No: 20161003159

PO Box Num:

Status:RegisteredCountry:CanadaGenerator #:ON0144713Approval Yrs:As of Sep 2016SIC Code:

SIC Description:

--- Details ---

Waste Code: 112 C

Waste Description: Acid solutions - containing heavy metals

+

Waste Code: 121 C

Waste Description: Alkaline slutions - containing heavy metals

+

Waste Code: 145 l

Waste Description: Wastes from the use of pigments, coatings and paints

Waste Code: 146 T

Waste Description: Other specified inorganic sludges, slurries or solids

+

Waste Code: 146 R

Waste Description: Other specified inorganic sludges, slurries or solids

+

Waste Code: 211 H

Waste Description: Aromatic solvents and residues

+

Waste Code: 263 l

Waste Description: Misc. waste organic chemicals

+

Waste Code: 251 L

Waste Description: Waste oils/sludges (petroleum based)

+

Waste Code: 262 L

Waste Description: Detergents and soaps

+

Waste Code: 264 R

Waste Description: Photoprocessing wastes

Waste Code:

Waste Description: Photoprocessing wastes

Waste Code: 331

Waste Description: Waste compressed gases including cylinders

Site: GVT. OF CANADA - PUBLIC WORKS

BLDG 78 CENTRAL EXPERIMENTAL FARM C/O PLACE DU PORTAGE PHASE IV LEVEL 11 HULL OTTAWA ON

K1A0M3

PO Box Num: Status: Country:

Generator #: ON0144725

Approval Yrs: 88 SIC Code: 4999

SIC Description: OTHER UTILITY IND.

--- Details ---

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 221

Waste Description: LIGHT FUELS

222 Waste Code:

HEAVY FUELS Waste Description:

Site: City of Ottawa

Bronson Avenue between Arlington - Laurier W Ottawa ON

Database: **GEN**

Database:

Order No: 20161003159

PO Box Num: Status: Country:

Generator #: ON3229547 Approval Yrs: 2013 SIC Code: 237110

WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION SIC Description:

--- Details ---

Waste Code: 221

LIGHT FUELS Waste Description:

City of Ottawa Site:

GEN Bronson Avenue between Arlington - Laurier W Ottawa ON

PO Box Num: Status: Country:

ON3229547 Generator #: Approval Yrs: 2012 SIC Code: 237110

SIC Description: Water and Sewer Line and Related Structures Construction

Site: **PUBLIC WORKS CANADA** Database: TUNNEY'S PASTURE COMPLEX CENTRAL HEA TI NG PLANT OTTAWA ON K1A 0M3

Company Code: O3210

Industry: **PUBLICS WORKS CANADA DELETED FEDERAL SITES** Site Status:

Transaction Date: 12/4/1994 Inspection Date: 3/13/1991

PUBLIC WORKS CANADA Site: Database: **NPCB** TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILD Ottawa ON

Company Code: O3211

Industry: Public Works Canada

Site Status: In- Use Transaction Date: 3/14/1991 Inspection Date: 3/14/1991

--- Details ---Label: Serial No.:

> PCB Type/Code: Askarel/Askarel

BROOKE CLAXTON BLDG. Location:

Item/State: No. of Items: Manufacturer:

Status: In-Use

Contents:

Label: Serial No.:

Askarel/Askarel PCB Type/Code:

Location: **BROOKE CLAXTON BUILDING** Item/State: No. of Items: Manufacturer:

Status: In-Use

Contents:

Site: PUBLIC WORKS CANADA

CENTRAL EXPERIMENTAL FARM; K W NEETBY BUILDING/ROO OTTAWA ON

Database: NPCB

Company Code: O3085

Industry: Public Works Canada

Site Status:

 Transaction Date:
 5/30/1990

 Inspection Date:
 11/24/1987

Site: PUBLIC WORKS CANADA

TUNNEY'S PASTURE COMPLEX BROOKE CLAXTON BUILDING OTTAWA ON K1A 0M3

Database: NPCB

Order No: 20161003159

Company Code: 03211

Industry:PUBLICS WORKS CANADASite Status:FEDERAL FACILITIES (IN USE)

 Transaction Date:
 11/19/1993

 Inspection Date:
 3/14/1991

--- Details ---

 Label:
 OR22597

 Serial No.:
 G3045-2

PCB Type/Code: ASKAREL/ASKAREL

Location:

Item/State: TRANSFORMER/FULL

No. of Items:

Manufacturer:

Status: IN-USE Contents: 6807 L

+

 Label:
 OR22596

 Serial No.:
 G3044-1

PCB Type/Code: ASKAREL/ASKAREL

Location:

Status:

Item/State: TRANSFORMER/FULL

IN-USE

No. of Items:

Manufacturer:

Contents: 6807 L + **Label:** OR22598

Serial No.: G3044-2
PCB Type/Code: ASKAREL/ASKAREL

Location:

Item/State: TRANSFORMER/FULL

No. of Items:

Manufacturer:

 Status:
 IN-USE

 Contents:
 6807 L

 +
 Label:
 OR24321

 Label:
 OR24321

 Serial No.:
 G3045-1

PCB Type/Code: ASKAREL/ASKAREL

Location:

Item/State: TRANSFORMER/FULL

No. of Items:

Manufacturer:

Status: IN-USE Contents: 6807 L

PUBLIC WORKS CANADA Database: Site: **NPCB** TUNNEY'S PASTURE COMPLEX Ottawa ON

Company Code: O3086

Public Works Canada Industry:

Site Status: In- Use Transaction Date: 10/27/1989

Inspection Date:

--- Details ---Label: Serial No.: PCB Type/Code:

Askarel/Askarel

PUMPHOUSE, TUNNEY'S PASTURE Location:

Item/State: No. of Items: Manufacturer:

Status: In-Use

Contents:

Label:

Serial No.:

PCB Type/Code: Askarel/Askarel Location: RESEARCH CENTER

Item/State: No. of Items: Manufacturer:

In-Use Status:

Contents:

Label: Serial No.:

PCB Type/Code: Askarel/Askarel Location: TUNNEY'S PASTURE

Item/State: No. of Items: Manufacturer:

Status: In-Use

Contents:

Ref NO:

Site: HOTEL/MOTEL

CARLING AVENUE (N.O.S.) OTTAWA CITY ON

Database: SPL

Contaminant Code:

Contaminant Name: Contaminant Quantity:

Incident Cause: UNDERGROUND TANK LEAK

84065

Incident Dt: 4/14/1993 Incident Reason: CORROSION

EMBASSY WEST HOTEL: FUEL-CONTAMINATED SOIL FOUND BY UNDERGROUND TANK Incident Summary:

MOE Reported Dt: 4/14/1993 **Environmental Impact:** CONFIRMED Soil contamination Nature of Impact: LAND

Receiving Medium:

SAC Action Class:

Sector Source Type:

Site Municipality: 20101

Site:

CARLING AVE. BETWEE COLE AVE. & MAITLAND AVE. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

Database:

Ref NO:

Contaminant Code: Contaminant Name: Contaminant Quantity: 238849

Incident Cause: PIPE/HOSE LEAK

Incident Dt: 9/9/2002

Incident Reason: EQUIPMENT FAILURE

Incident Summary: OC TRANSIT BUS: 60 L HYDRAULIC OIL TO ROAD & STORM SEWER. CLEANING.

MOE Reported Dt: 9/9/2002 Environmental Impact: POSSIBLE

Nature of Impact: Multi Media Pollution Receiving Medium: LAND, WATER

SAC Action Class: Sector Source Type:

Site Municipality: 20107

Site: CONSTRUCTION COMPANY

BRONSON AVENUE AT RIDEAU RIVER. OTTAWA CITY ON

Database: SPL

Ref NO: 93972

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: OTHER CONTAINER LEAK

Incident Dt: 11/30/1993
Incident Reason: ERROR

Incident Summary: CONSTRUCTION COMPANY- DIESEL TO RIVER FROM OVERTURNED CRANE.

MOE Reported Dt: 11/30/1993

Environmental Impact: NOT ANTICIPATED Nature of Impact: Water course or lake

Receiving Medium: WATER

SAC Action Class: Sector Source Type:

Site Municipality: 20101

Site: O.C. TRANSPO

Database:

ON CARLING AVE. IN BETWEEN PARKDALE & HOLLAND ST. OTTAWA SITE 1500 ST. LAURENT BOULEVARD

OTTAWA CITY ON

Ref NO: 113894

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: OTHER CONTAINER LEAK

Incident Dt: 6/1/1995

Incident Reason: EQUIPMENT FAILURE

Incident Summary: O.C. TRANSPO - UNKNOWN AMOUNT OF MOTOR OIL TO RD. & SEWER FROM BUS.

MOE Reported Dt: 6/1/1995 Environmental Impact: POSSIBLE

Nature of Impact: Water course or lake Receiving Medium: LAND / WATER

SAC Action Class: Sector Source Type:

Site Municipality: 20101

<u>Site:</u>
Carling Ave, EB and Melrose (centre of intersection) Ottawa ON

Database:

Order No: 20161003159

Ref NO: 1662-97RRRA

Contaminant Code: 15

Contaminant Name: HYDRAULIC OIL

Contaminant Quantity:
Incident Cause:
Incident Dt:
Incident Reason:

10 L
Leak/Break
16-MAY-13
Equipment Failure

Incident Summary: OC Transpo: 10 L hydraulic oil to rd/CB. Cntd/clng.

MOE Reported Dt: 16-MAY-13

Environmental Impact: Confirmed

Nature of Impact: Surface Water Pollution

Receiving Medium:
SAC Action Class:
Sector Source Type:
Watercourse Spills
Motor Vehicle

Site Municipality: Ottawa

Site: Industry Canada - Communications Research Centre

Carling Avenue (Between Moody and March Road) Ottawa ON

Ref NO: 6336-5TMS96

Contaminant Code: 44

Contaminant Name: SEWAGE, RAW UNCHLORINATED

Contaminant Quantity:

Incident Cause: Valve / Fitting Leak Or Failure

Incident Dt: 11/25/2003

Incident Reason: Error- Operator error

Incident Summary: CRC: Sewage forcemain hit, contained to land

MOE Reported Dt:11/25/2003Environmental Impact:Not AnticipatedNature of Impact:Other Impact(s)

Receiving Medium: Land

SAC Action Class:

Sector Source Type:

Site Municipality: Ottawa

Site: Enbridge Gas Distribution Inc.

Bronson Avenue near Fourth Ave. Ottawa ON

Ref NO: 3447-8TESBJ

Contaminant Code: 35

Contaminant Name: NATURAL GAS, COMPRESSED (METHANE)

Contaminant Quantity:

Incident Cause: Pipe Or Hose Leak
Incident Dt: 16-APR-12

Incident Reason: Spill

Incident Summary: Enbridge, TSSA FSB: 4" Gas Main Strike, Nat Gas to Air

MOE Reported Dt: 16-APR-12
Environmental Impact: Confirmed

Nature of Impact:

Receiving Medium: Sewage - Municipal/Private and Commercial

SAC Action Class: Air Spills - Gases and Vapours

Sector Source Type: Pipeline Site Municipality: Ottawa

<u>Site:</u>
RIDEAU RIVER, AT BRONSON AVE NEAR \ OTTAWA CITY ON

Ref NO: 94444

Contaminant Code: Contaminant Name: Contaminant Quantity: Incident Cause:

Incident Dt: 11/22/1993

Incident Reason:

Incident Summary:

MOE Reported Dt: 11/22/1993

Environmental Impact:

Nature of Impact:

Receiving Medium: WATER

SAC Action Class:

Sector Source Type:

Site Municipality: 20101

Database: SPL

Database:

Database:

SPL

Order No: 20161003159

Site: Database: SPL

Bronson Ave Ottawa ON

Ref NO: 5310-7DDTQN

Contaminant Code: 27

COOLANT N.O.S. Contaminant Name:

Contaminant Quantity: 25 L Incident Cause: Unknown

Incident Dt:

Equipment Failure Incident Reason:

Incident Summary: OC Transpo: Antifreeze to sewer from bus. Carleton U.

MOE Reported Dt: 4/4/2008 Not Anticipated **Environmental Impact:**

Nature of Impact: Receiving Medium:

Watercourse Spills SAC Action Class: Sector Source Type: Other Motor Vehicle

Site Municipality: Ottawa

LECLAIR FUELS LTD. Site: Database: BRONSON AVENUE TANK TRUCK (CARGO) OTTAWA CITY ON SPL

Ref NO: 9634

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: OTHER CONTAINER LEAK

Incident Dt: 9/21/1988 Incident Reason: **UNKNOWN**

GASOLINE SPILLED TO CATCHBASIN AND ROAD Incident Summary: OMHEU TRUCK-100 L

9/21/1988 MOE Reported Dt:

Environmental Impact:

Nature of Impact:

Receiving Medium: LAND

SAC Action Class:

Sector Source Type:

Site Municipality: 20101

Site: City of Ottawa Database: Bronson St E, north of Catherine St Ottawa ON

0342-74AGWM Ref NO:

Contaminant Code: 27

Contaminant Name: COOLANT N.O.S.

Contaminant Quantity:

Incident Cause: Pipe Or Hose Leak

Incident Dt:

Incident Reason: Unknown - Reason not determined 1L coolant to catch basin. Cleaning. Incident Summary: MOE Reported Dt: 6/18/2007

Not Anticipated **Environmental Impact:** Nature of Impact: Surface Water Pollution

Receiving Medium: Water

SAC Action Class:

Sector Source Type: Other Motor Vehicle

Ottawa Site Municipality:

Database:

Graham Creek outfall near Carling Av.<UNOFFICIAL> Ottawa ON

Order No: 20161003159 erisinfo.com | Environmental Risk Information Services

Site:

Ref NO: 7230-6EESVB

Contaminant Code:
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)

Contaminant Quantity:

Incident Cause: Discharge Or Bypass To A Watercourse

Incident Dt: 7/18/2005

 Incident Reason:
 Unknown - Reason not determined

 Incident Summary:
 Ukn srce,film on Graham Ck,Works & ERP

MOE Reported Dt: 7/18/2005
Environmental Impact: Possible

Nature of Impact: Surface Water Pollution
Receiving Medium: Water
SAC Action Class.

SAC Action Class: Spills to Watercourses Sector Source Type:

Site Municipality: Ottawa

Site: PUC

BOOTH STREET AT TRANSITWAY WHERE ALBERT AND SLATER JOIN MOTOR VEHICLE (OPERATING FLUID)

OTTAWA CITY ON

Ref NO: 20775

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: PIPE/HOSE LEAK Incident Dt: 6/21/1989

Incident Reason: MATERIAL FAILURE

Incident Summary: OTTAWA CARLETON-90 L HYDRAULIC OIL TO STORM SEWER AND STREET.

MOE Reported Dt: 6/21/1989

Environmental Impact: NOT ANTICIPATED

Nature of Impact:

Receiving Medium: LAND

SAC Action Class:

Sector Source Type:

Site Municipality: 20101

<u>Site:</u> Deep Foundations; SNC-Lavalin Constructors (Pacific) Inc. Boothe Street Bridge Pier #1 @ transit way Ottawa ON

Ref NO: 0267-9VMF6T

Contaminant Code: 15

Contaminant Name: HYDRAULIC OIL

Contaminant Quantity: 4 L

Incident Cause:
Incident Dt:
Incident Reason:
Leak/Break
4/14/2015
Equipment Failure

Incident Summary: Deep Foundations Drilling: 4 L hyd oil to grn, cleaned

MOE Reported Dt: 4/16/2015

Environmental Impact:

Nature of Impact: Land

Receiving Medium:

SAC Action Class: Land Spills

Sector Source Type:

Site Municipality: Ottawa

Site: Taggart Construction Limited

Field adjacent to Findlay Creek<UNOFFICIAL> Ottawa ON

Ref NO: 5017-82RTMZ

Contaminant Code: 99
Contaminant Name: SILT

Contaminant Quantity: 0 other - see incident description

Incident Cause:

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Order No: 20161003159

Database:

Database:

Database:

SPL

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Incident Dt: Incident Reason:

Incident Summary: Taggart Construction: silt to Findlay Creek

MOE Reported Dt:2/17/2010Environmental Impact:Not AnticipatedNature of Impact:Surface Water Pollution

Receiving Medium:

SAC Action Class: Watercourse Spills

Sector Source Type: Other

Site Municipality:

Site: City of Ottawa Database: CARLING AVE., IN FRONT OF WESTGATE SHOPPING CENTRE<UNOFFICIAL> Ottawa ON SPL

Ref NO: 7707-5XRK48

Contaminant Code: 27

Contaminant Name: COOLANT (N.O.S.)

Contaminant Quantity: 7

Incident Cause:Pipe Or Hose LeakIncident Dt:4/5/2004Incident Reason:Equipment Failure

Incident Summary: OC Transpo,7 L antifreeze into storm sewer, works

MOE Reported Dt: 4/5/2004
Environmental Impact: Possible

Nature of Impact: Soil Contamination

Receiving Medium:
SAC Action Class:
Spills
Sector Source Type:
Other
Site Municipality:
Ottawa

Site:

Carling Ave near Woodroffe CARLING AVE<UNOFFICIAL> Ottawa ON

Database:

SPL

SPL

Ref NO: 3016-6UGHU4

Contaminant Code: 15

Contaminant Name: HYDRAULIC OIL

Contaminant Quantity: 9 L

Incident Cause:

Incident Dt: 10/11/2006

Incident Reason:

Incident Summary: Carling Ave: spill 2 gallons hydraulic oil

MOE Reported Dt:10/11/2006Environmental Impact:Not AnticipatedNature of Impact:Soil Contamination

Receiving Medium: Land

SAC Action Class:

Sector Source Type: Other Motor Vehicle

Site Municipality: Ottawa

Site: OTTAWA TRANSIT Database: CARLING AVENUE BUS OTTAWA ON SPL

Ref NO: 187680

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause:PIPE/HOSE LEAKIncident Dt:9/29/2000Incident Reason:UNKNOWN

Incident Summary: OC TRANSPO:DIESEL FUEL LEAK FROM FUEL PUMP/LINE INTO SEWER-WORKS NOTIFIED

Order No: 20161003159

MOE Reported Dt:9/29/2000Environmental Impact:POSSIBLE

Nature of Impact: Water course or lake

Receiving Medium: WATER

SAC Action Class:

Sector Source Type:

Site Municipality: 20107

Site: PUBLIC WORKS CANADA

VARIOUS LOCATION GOVERNMENT BUILDING OR PROPERTY OTTAWA CITY ON

Database: SPL

Order No: 20161003159

Ref NO: 234129

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: PIPE/HOSE LEAK Incident Dt: 5/23/2002

Incident Reason: SIZSIZOUZ EQUIPMENT FAILURE

Incident Summary: PUBLIC WORKS CANADA: 4 X R22 RELEASES TO ATM

MOE Reported Dt:7/31/2002Environmental Impact:CONFIRMEDNature of Impact:Air Pollution

Receiving Medium: AIR

SAC Action Class: Sector Source Type:

Site Municipality: 20107

Site: FIRST FUEL Database: TANK TRUCK (CARGO) OTTAWA CITY ON SPL

Ref NO: 31237

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause:
Incident Dt:
Incident Reason:

PIPE/HOSE LEAK
2/22/1990
ERROR

Incident Summary: FIRST FUELS-5 L FURNACE OIL TO WATER PUDDLE.

MOE Reported Dt: 2/22/1990

Environmental Impact: Nature of Impact:

Receiving Medium: LAND / WATER

SAC Action Class:

Sector Source Type:
Site Municipality: 20101

Site: TAGGART SERVICES Database:

TRAILER IN YARD TRANSPORT TRUCK (CARGO) OTTAWA CITY ON
Ref NO: 21945

Ref NO: Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: OTHER CONTAINER LEAK

Incident Dt: 7/13/1989
Incident Reason: UNKNOWN

Incident Summary: TAGGART SERVICES- 2L JUGSOF HYPOCHLORITE(JAVEX) SLON SPILLED IN TRAILER.

MOE Reported Dt: 7/13/1989

Environmental Impact:

Nature of Impact:

Receiving Medium: LAND

SAC Action Class: Sector Source Type:

Site Municipality: 20101

Site: DEPT OF NATIONAL DEFENSE

AIRPORT (MILITARY RAMP) AIRCRAFT OTTAWA CITY ON

Database: SPL

Database:

Database:

Ref NO: 8603

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: VALVE/FITTING LEAK OR FAILURE

Incident Dt: 8/25/1988

Incident Reason: EQUIPMENT FAILURE

Incident Summary: DEPT OF NAT'L DEFENSE - 150 L JET FUEL (A) TO AIRPORT RAMP.

MOE Reported Dt: 8/25/1988

Environmental Impact:

Nature of Impact:

Receiving Medium: LAND

SAC Action Class: Sector Source Type:

Site Municipality: 20101

Site: DEPT OF NATIONAL DEFENSE

OTTAWA AIRPORT AIRCRAFT OTTAWA CITY ON

Ref NO: 226437

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: CONTAINER OVERFLOW

Incident Dt: 5/26/2002
Incident Reason: UNKNOWN

Incident Summary: DND: AIRCRAFT #15005 30 L JET A1 TO GRND CONTAINED AND CLEANED

MOE Reported Dt:5/27/2002Environmental Impact:POSSIBLENature of Impact:Soil contamination

Receiving Medium: LAND

SAC Action Class:

Sector Source Type:

Site Municipality: 20107

<u>Site:</u> DEPARTMENT OF NATIONAL DEFENSE

ROCKCLIFFE SITE FUEL STORAGE TANK OTTAWA CITY ON

Ref NO: 176223

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: CONTAINER OVERFLOW

Incident Dt: 12/24/1999
Incident Reason: ERROR

Incident Summary: DND- TWO SEPARATE SPILLS OF DIESEL-5 TO 10 LITRES TO GROUND- NO ADVERSE EFF

MOE Reported Dt: 12/29/1999

Environmental Impact: NOT ANTICIPATED

Nature of Impact: Other Receiving Medium: LAND

SAC Action Class: Sector Source Type:

Site Municipality

Site Municipality: 20101

Site: OTTAWA-CARLETON, R.M. OF

OTTAWA RIVER, FROM TRIBUTARY AT THE BOOTH ST. REGULATOR SANITARY SEWER SYSTEM OTTAWA

CITY ON

Ref NO: 168657

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Order No: 20161003159

Database:

SPL

Contaminant Code: Contaminant Name: Contaminant Quantity:

WASTEWATER DISCHARGE TO WATERCOURSE Incident Cause:

Incident Dt:

Incident Reason: **EQUIPMENT FAILURE**

Incident Summary: RMOC- COMBINED SEWER OVERFLOW TO OTTAWA R. FROM CLOSED REGULATOR.

MOE Reported Dt: 6/8/1999 Environmental Impact: **POSSIBLE**

Nature of Impact: Water course or lake

Receiving Medium: WATER

SAC Action Class: Sector Source Type:

Site Municipality: 20101

Site: City of Ottawa

Database: Booth Street Ottawa ON

4201-9VWNK8 Ref NO:

Contaminant Code: 27

Contaminant Name: COOLANT N.O.S.

Contaminant Quantity: 10 L Incident Cause: Leak/Break Incident Dt: 4/25/2015 Incident Reason: Unknown / N/A

Incident Summary: Coolant to road and some to catch basin.

MOE Reported Dt: 4/25/2015

Environmental Impact:

Land Nature of Impact:

Receiving Medium:

Land Spills SAC Action Class:

Sector Source Type:

Site Municipality: Ottawa

OTTAWA-CARLETON, R.M. OF Site:

BOOTH ST GATE SANITARY SEWER SYSTEM OTTAWA CITY ON

Database:

Database:

Order No: 20161003159

Ref NO: 153868

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE

Incident Dt: 3/28/1998

Incident Reason: STORM/FLOOD/WIND

OTTAWA CARLETON R.M.- BYPASS OF RAW UNCHLORINATED SEWAGE, RAIN Incident Summary:

MOE Reported Dt: 3/28/1998 POSSIBLE **Environmental Impact:**

Nature of Impact: Water course or lake

Receiving Medium: WATER

SAC Action Class: Sector Source Type:

20101 Site Municipality:

Site: OTTAWA-CARLETON, R.M. OF

ON THE TRANSITWAY EASTBOUND AT BOOTH AND LEBRETON MOTOR VEHICLE (OPERATING FLUID)

OTTAWA CITY ON

Ref NO: 125046

Contaminant Code: Contaminant Name: Contaminant Quantity:

OTHER CAUSE (N.O.S.) Incident Cause:

Incident Dt: 4/17/1996 Incident Reason: UNKNOWN

Incident Summary: OC TRANSPO-40L TRANSMISSION FLUID TO ROADWAY.

MOE Reported Dt: 4/17/1996

Environmental Impact: NOT ANTICIPATED

Nature of Impact: Water course or lake

Receiving Medium: LAND

SAC Action Class: Sector Source Type:

Site Municipality: 20101

Site: Ottawa Hydro <UNOFFICIAL>

ON BELL ST. E. OF WESTRIDGE DR. ACROSS FROM LOT 173 IN STITTSVILLE <UNOFFICIAL> Ottawa ON

Database: SPL

Ref NO: 2302-63TUK4

Contaminant Code: 15

Contaminant Name: TRANSFORMER OIL (N.O.S.)

Contaminant Quantity: 150 L

Incident Cause: Cooling System Leak

Incident Dt: 8/13/2004

Incident Reason: Damage By Moving Equipment - Containers damaged by moving

Incident Summary: Ottawa Hydro - 150 L of oil to ground.

MOE Reported Dt: 8/13/2004

Environmental Impact:
Nature of Impact:
Soil Contamination

Receiving Medium: Land

SAC Action Class:

Sector Source Type:

Site Municipality: Ottawa

Site: Taggart Construction Limited

Closest accessible street is the south end of Kelly Farm Dr. Ottawa ON

Database: SPL

Database:

SPL

Ref NO: 7527-82RKD5

Contaminant Code: 99 **Contaminant Name:** SILT

Contaminant Quantity: 0 other - see incident description
Incident Cause: 0 other - see incident description
Discharge Or Bypass To A Watercourse

Incident Dt:

Incident Reason: Spill

Incident Summary: Taggart Construction: Silt spill to Findlay Creek.

MOE Reported Dt: 2/17/2010
Environmental Impact: Not Anticipated
Nature of Impact: Surface Water Pollution
Receiving Medium:
SAC Action Class: Watercourse Spills

Sector Source Type: Other

Site Municipality:

Site: PUBLIC WORKS CANADA

TILLEY BUILDING CONFEDERATION HEIGHTS OTTAWA CITY ON

96173

Contaminant Code: Contaminant Name: Contaminant Quantity:

Ref NO:

Incident Cause: PIPE/HOSE LEAK

Incident Dt: 2/9/1994
Incident Reason: GASKET/JOINT

Incident Summary: PUBLIC WORKS CANADA - 400L #2 OIL FROM LINE TO LAND & SUMP

MOE Reported Dt:2/9/1994Environmental Impact:POSSIBLENature of Impact:Soil contamination

Receiving Medium: LAND

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Order No: 20161003159

SAC Action Class: Sector Source Type:

Site Municipality: 20101

Site: DEPARTMENT OF NATIONAL DEFENSE

DND UPLANDS AIR BASE, HANGERS # 17, 18 & 19. TRANSFORMER OTTAWA CITY ON

Database: SPL

Ref NO: 152985

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: OTHER CONTAINER LEAK

Incident Dt: //

Incident Reason: ERROR

Incident Summary: DND- FURNACE OIL LEAK TO PARKING LOT AT OTTAWA UP-LAND AIR BASE, CLEANED UP

MOE Reported Dt: 3/4/1998
Environmental Impact: POSSIBLE

Nature of Impact: Water course or lake Receiving Medium: LAND

Receiving Medium: SAC Action Class:

Sector Source Type:

Site Municipality: 20101

Site: Taggart Construction Limited

Taggart Construction Limited Findlay Creek Subdivision Ottawa ON

Database: SPL

Ref NO: 4066-82SU3T

Contaminant Code: 43

Contaminant Name: SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)

Contaminant Quantity: 90 min (duration)

Incident Cause: Discharge Or Bypass To A Watercourse

Incident Dt:

Incident Reason: Overstress/Pressure - Any form of overloading wherein the design strength of the container was exceeded

Incident Summary: Taggart Construction: sediment to Findlay Creek

MOE Reported Dt: 2/18/2010 Environmental Impact: Confirmed

Nature of Impact: Surface Water Pollution

Receiving Medium:

SAC Action Class: Environment Canada - Spills at Federal Facilities & Spills of National Interest

Sector Source Type: Site Municipality:

Site: DEPARTMENT OF NATIONAL DEFENSE

CONNAUGHT RANGES & TRAINING CENTRE - NATIONAL DEFENSE SITE OTTAWA CITY ON

Database: SPL

Order No: 20161003159

Ref NO: 237133

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause:UNKNOWNIncident Dt:8/26/2002Incident Reason:UNKNOWN

Incident Summary: CONNAUGHT RANGE:10 LITRES HYDRAULIC FLUID TO GRD, CONTAINED/CLEANING

MOE Reported Dt:8/26/2002Environmental Impact:POSSIBLENature of Impact:Soil contamination

Receiving Medium: LAND

SAC Action Class: Sector Source Type:

Site Municipality: 20107

Site: Database: SPL

SNC Lavalin Profac Ottawa ON

Ref NO: 5272-7UEPGA

Contaminant Code: Contaminant Name: REFRIGERANT GAS, R123. Contaminant Quantity: 0 other - see incident description Incident Cause: Discharge or Emission to Air

Incident Dt:

Incident Reason: Unknown - Reason not determined Incident Summary: SNC Lavalin Profac: potential R123 to atm.

MOE Reported Dt: 7/29/2009 Environmental Impact: Not Anticipated Nature of Impact: Air Pollution

Receiving Medium:

SAC Action Class: Air Spills - Gases and Vapours

Sector Source Type: Other Site Municipality: Ottawa

Site: TRANSPORT TRUCK Database: HWY 16 MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON SPL

Ref NO: 76308

Contaminant Code: Contaminant Name: Contaminant Quantity:

OTHER CONTAINER LEAK Incident Cause:

Incident Dt: 9/15/1992 Incident Reason: **ERROR**

TRANSPORT TRUCK-450 L DIESEL FUEL TO HWY 16 CONTAINED, FD, PD, MTO. Incident Summary:

MOE Reported Dt: 9/15/1992 **Environmental Impact: POSSIBLE** Soil contamination Nature of Impact:

Receiving Medium: LAND

SAC Action Class:

Sector Source Type:

Site Municipality: 20101

Site: **HEATING OIL TANK** Database: FARM OFF HWY 16 PETROLEUM SECTOR ONLY OTTAWA-CARLETON R.M. ON SPL

Ref NO: 30436

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: ABOVE-GROUND TANK LEAK

Incident Dt: 1/31/1990 Incident Reason: CORROSION

STOVE OIL TANK-900 L STOVE OIL TO GROUND. Incident Summary:

MOE Reported Dt: 1/31/1990

Environmental Impact:

Nature of Impact:

LAND Receiving Medium:

SAC Action Class:

Sector Source Type:

20000 Site Municipality:

Site: NATIONAL DEFENCE Database: SPL SHERLY'S BAY (PROPERTY) OFF CARLING AVE. FUEL STORAGE TANK OTTAWA CITY ON

Order No: 20161003159

Ref NO: 223921

Contaminant Code: Contaminant Name: Contaminant Quantity:

Incident Cause: UNDERGROUND TANK LEAK

Incident Dt: 4/11/2002 Incident Reason: UNKNOWN

Incident Summary: NATIONAL DEFENCE, LEAKING UST, INSTALLED PRE 1980 UNKNOW VOLUME TO GRND

MOE Reported Dt: 4/11/2002
Environmental Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND

Receiving Medium: SAC Action Class:

Sector Source Type:

Site Municipality: 20107

Order No: 20161003159

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 2016

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 2014

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

Automobile Wrecking & Supplies:

Private

AUWR

Order No: 20161003159

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: Oct 31, 2015

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 2014

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*

Commercial Fuel Oil Tanks:

Provincial CFOT

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: Aug 31, 2016

<u>Chemical Register:</u> 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: Oct 31, 2015

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

Provincial

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:

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 2016

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-Jul 2016

Drill Hole Database:

Provincial DRI

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-Jun 2014

Environmental Activity and Sector Registry:

Provincial

EASR

CONV

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: Jul 31, 2016

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-Jul 2016

Environmental Compliance Approval:

Provincial

ECA

Order No: 20161003159

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: Jul 31, 2016

Environmental Effects Monitoring:

Federal

FFM

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 2016

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

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include 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.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities:

Provincial

EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Aug 31, 2016

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.

Government Publication Date: June 2000-Oct 2015

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

Order No: 20161003159

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-Sept 2003

Fuel Storage Tank:

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: Aug 31, 2016

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-Sep 2016

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 2014

TSSA Historic Incidents:

Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

۸ГТ

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*

TSSA Incidents:

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Aug 31, 2016

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as 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 will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations:

Private

MINE

Order No: 20161003159

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-Mar 2014

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, 2014

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-Aug 2010

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 Wells:

Federal

NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

Order No: 20161003159

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: Dec 31, 2014

Oil and Gas Wells:

Private OGW

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-Jun 2016

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 2015

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-Jul 2016

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

Parks Canada Fuel Storage Tanks:

Federal

CFT

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 Environment maintains a database of all manufacturers and vendors of registered pesticides.

Government Publication Date: 1988-Jun 2013

TSSA Pipeline Incidents:

Provincial

PINC

Order No: 20161003159

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Aug 31, 2016

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-Jul 2016

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: 1986-2013

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-Jan 2016

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: Oct 31, 2015

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

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-Jan 2016

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: 1990-2014

Anderson's Storage Tanks:

Private

TANK

Order No: 20161003159

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

CFT

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-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

The TSSA, under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks

Government Publication Date: Aug 31, 2016

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: Jul 31, 2016

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

Order No: 20161003159

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: Jun 30, 2016

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>: 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.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

<u>Direction</u>: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

<u>Elevation:</u> The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

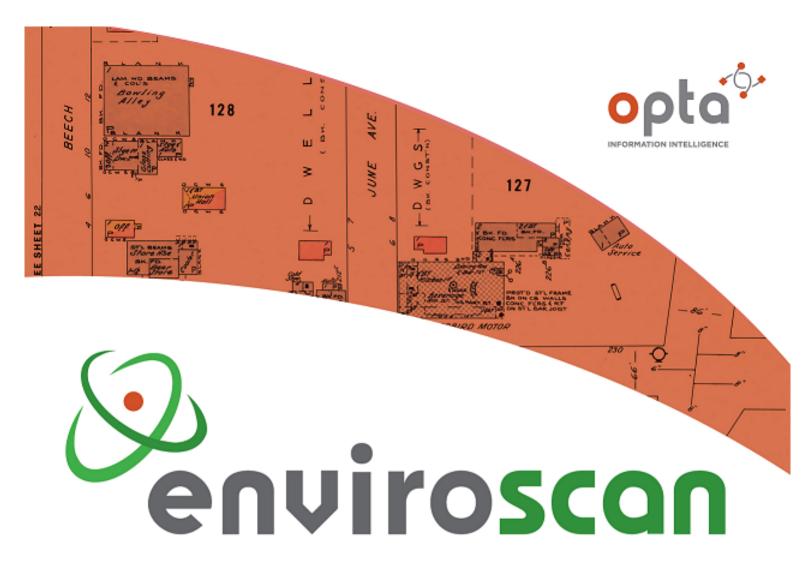
'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Order No: 20161003159









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175 Commerce Valley Drive W Markham, Ontario L3T 7Z3

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

Report Completed By:

Sunita

Site Address:

289 Carling Avenue Ottawa Ontario

Project No:

20161031160

Opta Order ID:

30726

Requested by:

Eleanor Goolab

ERIS

Date Completed:

11/9/2016 10:34:13 AM

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Project #: 20161031160 P.O. #: GVSO027667

ENVIROSCAN Report

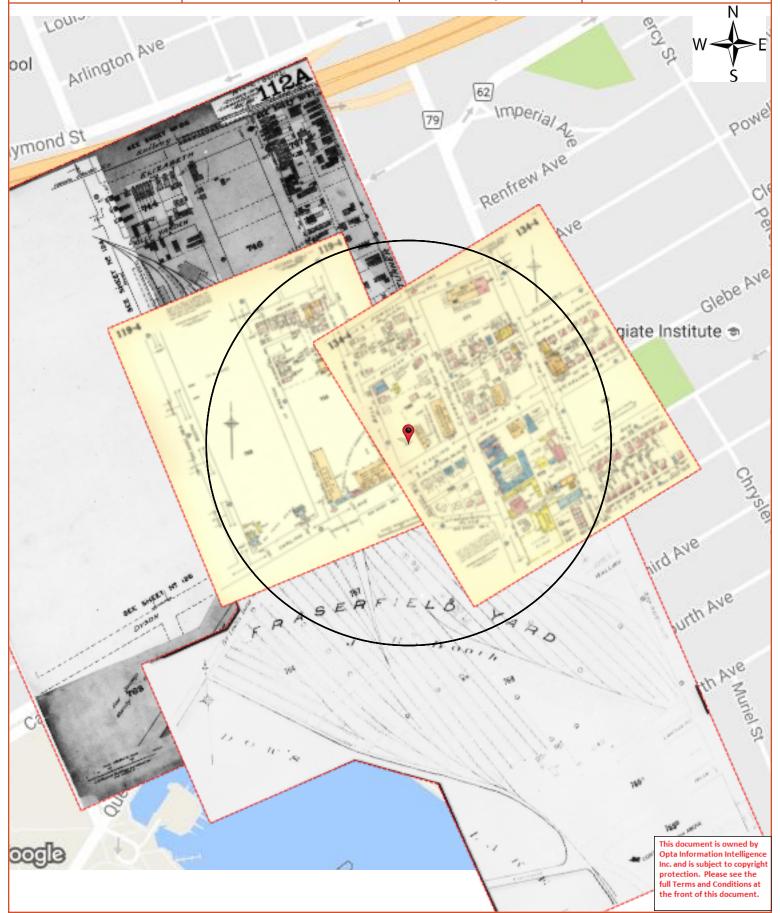
Search Area: 289 Carling Avenue Ottawa Ontario

Requested by: Eleanor Goolab

Date Completed: November 9, 2016 10:34:13



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Project Name: Phase One ESA 289 Carling Ave.

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ENVIROSCAN Report

Opta Historical Environmental Services Enviroscan Terms and Conditions

Requested by:
Eleanor Goolab
Date Completed: November 9, 2016 10:34:13



OPTA INFORMATION INTELLIGENCE

Opta Historical Environmental Services Enviroscan Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

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

Governing Document

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

Law

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



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| 10 | (1963) Volume: Ottawa Volume 1 Firemap: 119-4 |
| 12 | (1963) Volume: Ottawa Volume 1 Firemap: 134-4 |

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1901 Volume: Ottawa 1 Firemap: 112A **Ottawa Volume 1 Plan: 1423 (1888)**

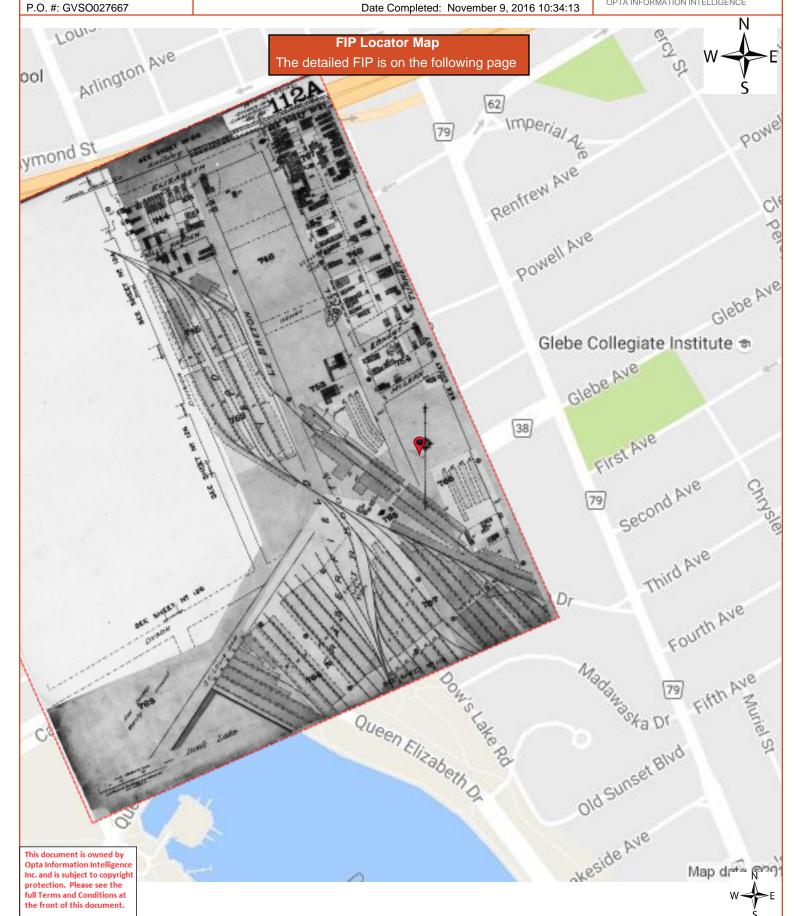
Sheet: 112A (1901)

Eleanor Goolab

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enviroscan

Requested by:



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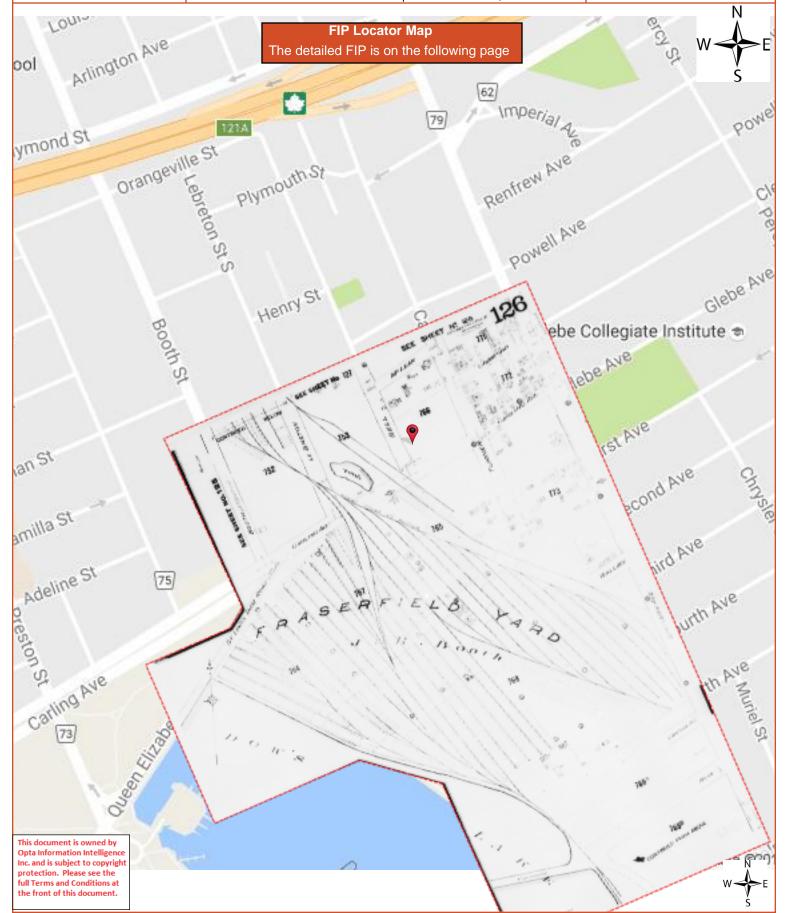
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Sheet: 126 (1915)

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1915 Volume: Ottawa 2 Firemap: 126 Ottawa Volume 2 Plan: 1433 (1902) Sheet: 126 (1915)

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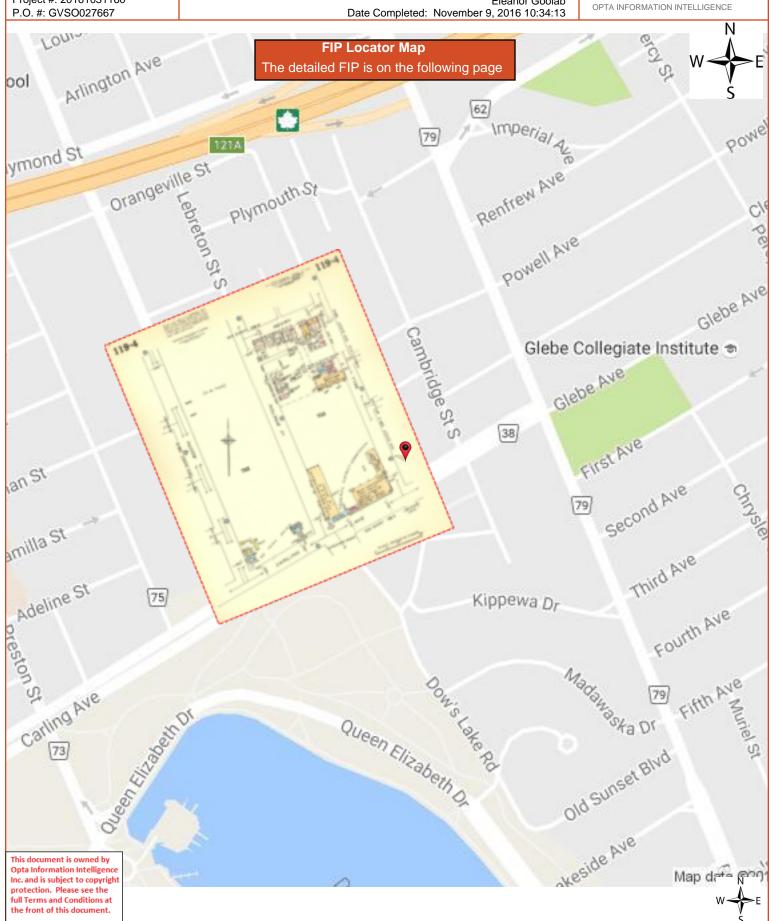
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1963 Volume: Ottawa 1 Firemap: 119-4

Ottawa Volume 1 Plan: 1450 (1956) Sheet: 119-4 (1963)

Requested by: Eleanor Goolab





289 Carling Ave.

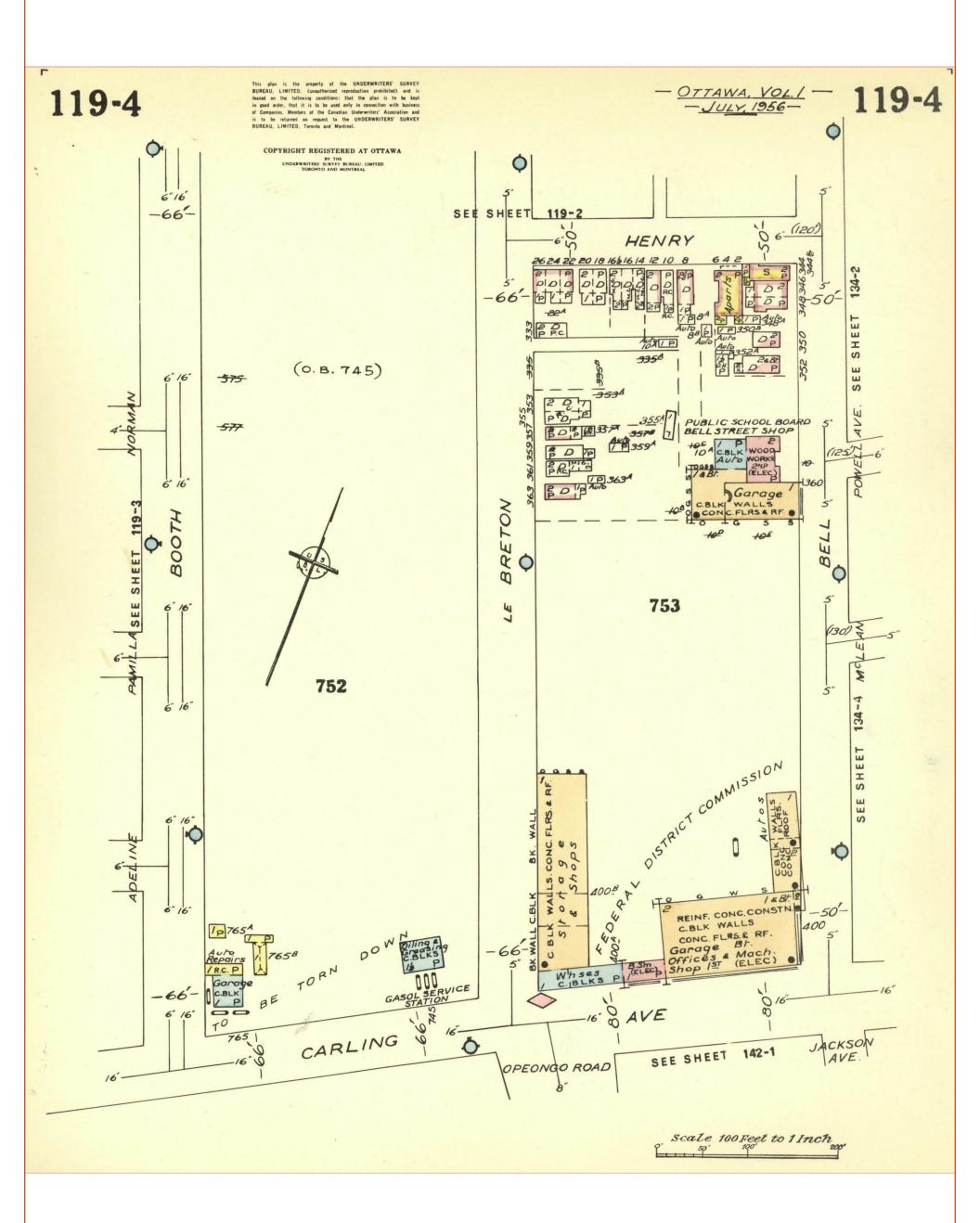
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1963 Volume: Ottawa 1 Firemap: 119-4

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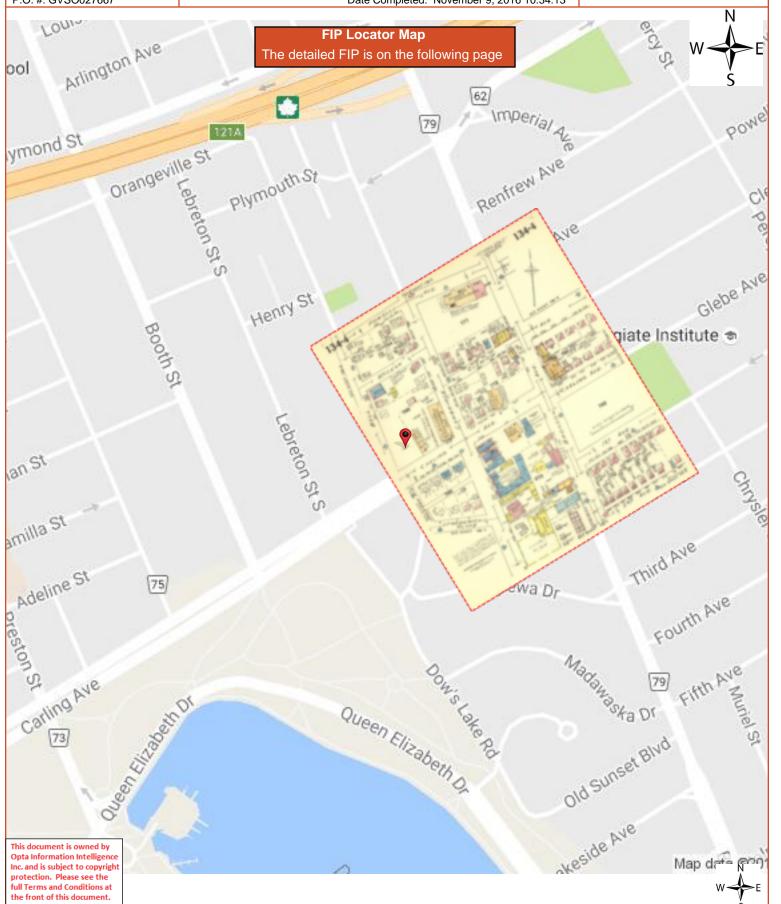
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Project Name: Phase One ESA

Project #: 20161031160 P.O. #: GVSO027667

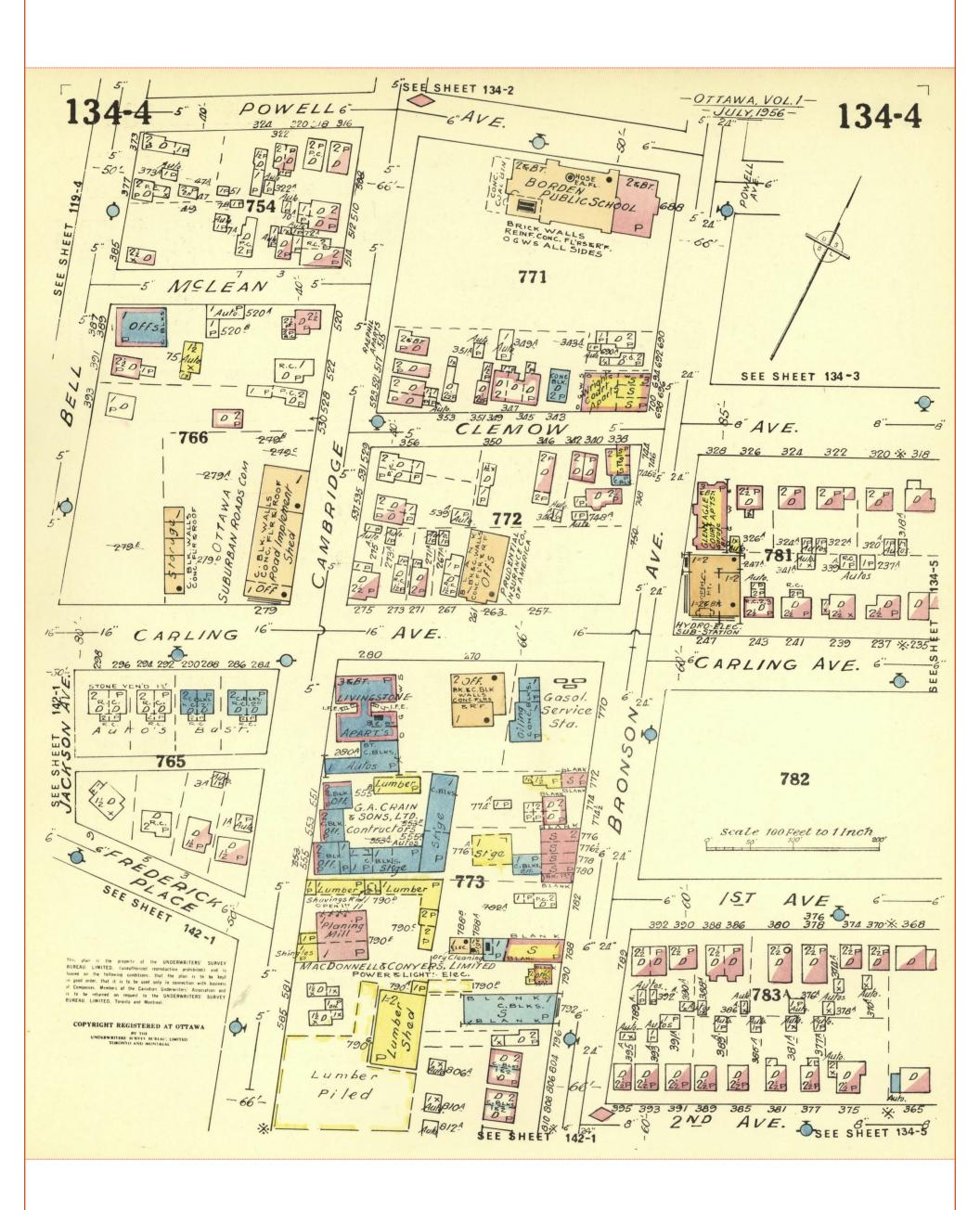
289 Carling Ave.

1963 Volume: Ottawa 1 Firemap: 134-4

Ottawa Volume 1 Plan: 1450 (1956) Sheet: 134-4 (1963)

Requested by: Eleanor Goolab Date Completed: November 9, 2016 10:34:13





HEIRS Report



DST CONSULTING ENGINEERS INC.

203-2150 Thurston Drive Ottawa, Ontario, K1G 5T9 Tel.: 613-748-1415 Fax: 613-748-1356

E-mail: Ottawa@dstgroup.com

Canada Lands Company 30 Metcalfe Street, Suite 601, Ottawa, Ontario K1P 5L4 March 17, 2014

Attn: Ms. Krista Durie, Project Coordinator

RE: Environmental Liability Assessment

The Bell Street Parking Lot; 289 Carling Avenue, Ottawa, Ontario

DST File No.: OE-OT-017959

1 INTRODUCTION

DST Consulting Engineers Inc. (DST) was retained by Canada Lands Company (CLC) to conduct a review of available historical reports, and to provide a preliminary assessment of the environmental conditions and liability for the Bell Street Parking Lot. This assessment was limited to a desktop review and no verification or investigations were conducted under this mandate. The subject property is located at the north east corner of Bell Street and Carling Avenue, in Ottawa, Ontario (the Site). It is our understanding that the Site is currently owned by PWGSC.

The purpose of this assessment work is to support a real property transaction for the Site and potential future redevelopment of the property based on residential land use. A Record of Site Condition will be required if rezoning of the property is to be completed.

2 SITE DESCRIPTION

The legal address of the property is Lot 10, part of Lots 8, 9, and 11, Concession 1, Ottawa. Originally the Site was used as part of a quarry during 1920's. From 1930's until the early 1950's, the property was used as part of the works yard for the "Ottawa Suburban Roads Commission". The property has been used as a parking lot since the late 1950's (Intera Consultants Ltd., 1997). Size of the lot is approximately 1,271 m².

The relief of the parking lot is relatively flat with adjacent area is sloping toward southeast. The Site is surrounded by residential and government properties, with Carling Avenue to the south.

3 REVIEW OF HISTORICAL ENVIRONMENTAL REPORTS

DST was provided with two historical environmental reports for the Site as described in the following subsections. The PWGSC review completed in 2007 referred to two other reports; a Phase I ESA was completed in March 1996, and a Screening Level Review in July 2002. However, these reports were not available for review by DST.

3.1 Phase II Environmental Site Assessment (Intera Consultants Ltd., 1997)

The Site is located at the northeast corner of Bell Street and Carling Avenue. The Site is surrounded by residential properties. Historical use of the property (quarry, works yard) and neighboring properties (rail yard and metal research facility to the west) indicate a potential for site contamination.

A Phase II Environmental Site Assessment (ESA) was completed by Intera Consultants Ltd. (Intera) to characterize soil and groundwater quality at the Site. Five boreholes were completed, two of them were advanced to bedrock and installed as monitoring wells. The geology of the Site consists of a thin layer (approximately 0.7 m) of fill, represented by black, brown and orange stained sand. The limestone bedrock is grey with frequent mud seams and shaley interbeds. Fractures were observed in the recovered cores, with greater fracture frequency in the upper 2 m of bedrock.

Metal contamination was detected in the fill, with concentrations of barium, copper, lead, molybdenum and zinc exceeding relevant federal and provincial standards. Fill samples were analyzed for petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX), and polyaromatic hydrocarbons (PAH). All concentrations of PHCs and BTEX were less than the laboratory detection limit. Several PAHs were detected slightly above the laboratory detection limit, but were less than the relevant federal and provincial standards at time of the study.

Groundwater samples (two) were analyzed for metals, PHCs, BTEX, and volatile organic compounds (VOC). All concentrations were less than the laboratory detection limits.

Phase II ESA report concluded that as contaminated soil is encapsulated below asphalt layer, there is not an adverse impact to human health or the environment. If remediation of soil is considered, approximately 850 m³ of fill material should be removed and disposed off-site.

3.2 Property Review Standard (PWGSC, 2007)

In 2007, the PWGSC Contaminated Sites Division completed a regular review of PWGSC's property inventory for contaminated sites identification and management purposes. The reviews are completed every 3 years, and the objective is to identify potential pollution and to adopt prevention measures or operational improvements to minimize the creation of new contaminated sites on the PWGSC real property inventory.

The review described the lot as 90% covered by asphalt and 10% covered by grass, bushes and trees. Several potholes and cracked asphalt were observed, with a larger pothole (approximately 1 m²) at southwest corner. The review concluded that due to poor condition of the asphalt there is possibility of seepage of surface water into exposed contaminated fill. This could lead to dilution and mobilization of the contaminants, possibly impacting the underlying groundwater, and the adjoining properties.

The review recommended that the asphalt be patched and sealed where cracks and potholes are observed. As an alternative, the identified contaminated soil could be excavated, removed from the property, disposed-of at a registered facility, and replaced with compacted, imported, clean fill.

4 SITE ENVIRONMENTAL CONDITIONS

The Phase II ESA completed by Intera identified the presence of contaminated soil at the Site. The layer of fill material overlying the bedrock exhibited metal concentrations (barium, copper, lead, molybdenum and zinc) that exceeded the relevant federal and provincial standards. All concentrations of PHCs and BTEX were less than laboratory detection limits. Several PAH parameter concentrations were slightly greater than the laboratory detection limits, but were less than the then-relevant federal and provincial standards. Fill material at the Site is predominantly encapsulated below an asphalt layer (approximately 90% of the property). The estimated volume of impacted soil is approximately 850 m³ (Intera, 1997).

Groundwater at the Site was not impacted at the time of the Intera Phase II ESA (November 1997). All groundwater concentrations of metals, PHCs, BTEX, and other VOCs were less than the laboratory detection limits. However, as the PWGSC review indicates, there are cracks and potholes in the asphalt cover and there is potential for infiltration of surface water into the fill

material and the subsequent mobilization of contaminants (metals). As a result, groundwater at the Site may be potentially impacted at the present time.

In addition, the use of the Site as a parking lot potentially is another potentially contaminating activity. The property has been used for parking of vehicles for more than 50 years (Intera, 1997). Considering this long time period, there is a potential that hydrocarbon-based products dripping from cars (fuel, oil, and coolants) or accidental spills could have been flushed by precipitation and infiltrated through cracks and potholes in the asphalt layer into the subsurface. Sixteen years has passed since the last groundwater sampling was completed at the Site.

5 REGULATORY FRAMEWORK

Historic analytical results were compared to the federal and provincial standards valid in 1997:

- Canadian Council of Ministers of Environment (CCME) Canadian Soil Quality Guidelines,
 March 1997, Guideline for Residential/Parkland Use;
- CCME Interim Canadian Environmental Criteria for Contaminated Sites, September 1991,
 Interim Remediation Criteria for Soil, Residential/Parkland Use;
- Ontario MOEE, Guideline for Use at Contaminated Sites in Ontario, June 1996, Table B: Surface Soil Criteria for Residential/Parkland Land Use for Non-Potable Groundwater Condition.

Since then the regulations have been updated and a new regulations have been adopted. The current relevant regulations and guidelines for the Site would be as follows:

- CCME Canadian Environmental Quality Guidelines Soil Quality Guidelines for the Protection of Environmental and Human Health;
- CCME Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health, Polycyclic Aromatic Hydrocarbons, 2010;
- CCME Canada Wide Standards for Petroleum Hydrocarbons (PHC) in soil, Revised in January 2008;
- Environment Canada Federal Interim Groundwater Quality Guidelines, November 2012;
- Ontario MOE Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, April 2011, TABLE 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition, Residential/Parkland/Institutional Property Use, Coarse-Grained Soil (for fill material assessment); and

DST Reference No.: OE-OT-017959

 Ontario MOE Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, April 2011, TABLE 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition, All Types Property Use (for

groundwater assessment).

The new regulations and guidelines tend to have more stringent standards than the older referenced standards. It was noted that several method detection limits in the results of historic Phase II ESA report are greater than current regulation standards. As a result, an updated environmental site assessment is recommended to assess compliance of the Site with current

provincial standards.

6 ENVIRONMENTAL LIABILITY ASSESSMENT

In order to assess environmental liability for the Site, DST evaluated potential remedial options

for the Site.

Historical environmental reports detected the presence of soil metals contamination at the Site. Fill materials contain concentrations of several metals exceeding the relevant federal and

provincial standards (Guidelines in 1997 and the current O. Reg. 153-04 Table 7, as well).

Based on available environmental information and the physical setting for the Site, the remedial option considered by DST to be the most effective for the given site is summarized in the following

subsections.

6.1 Removal of Contaminated Soil and Off-Site Disposal

Approximately 850 m³ of fill material would be excavated and hauled to a licensed disposal facility for disposal. The excavated area would be backfilled with clean fill material and compacted assuming development of the Site is to occur at a later date. We would recommend that the remediation of the Site be conducted at time of development to minimize the additional costs of

clean fill importation.

An updated Phase I and II ESA in accordance with the Current provincial regulations O. Reg. 153/04 as amended, would be completed in order to obtain current information about distribution of contaminants in the fill material and the shallow groundwater regime.

Supplemental site investigation, soil removal, backfilling and compaction, preparation of the report and Record of Site Condition for filling would be completed in 3 to 4 months assuming no groundwater quality issues.

6.2 Preliminary Quantitative Human Health and Ecological Risk Assessment

Preliminary quantitative human health (PQRA-HH) and ecological risk assessment (PQRA-E) would be completed for the Site should there be any groundwater quality concerns. As the planned future use of property is residential, the risk assessment would provide assessment of risks for humans and ecological receptors. Risk mitigation measures, as required, would be proposed.

In order to obtain reliable information for a risk assessment supplemental Phase II ESA would be completed to characterize the distribution of contaminants in the fill material. Groundwater quality at the Site would also be assessed.

The environmental consultant would complete supplemental site investigation, pre-submission form, risk assessment and submit the RSC for filling.

Supplemental site investigation, preliminary quantitative risk assessment, reporting and submission of Record of Site Condition would be completed in 12 months.

GEOTECHNICAL CONSIDERATIONS

Generally, the Site geology consists of a shallow overburden overlying a limestone bedrock. With respect to future building structures, building foundations will be founded on the limestone bedrock which should not pose any significant concerns with respect to bearing capacity. Should a deep excavation be required for underground parking, excavation costs will be higher and considerations for potential groundwater management as well as excavation wall stability during A detailed geotechnical investigation is required to assess the soils and construction. groundwater conditions with respect to the requirements of future building structures.

8 SUMMARY AND CONCLUSIONS

DST has completed an assessment of the environmental conditions for the Site. Previous environmental investigations indicated the presence of metals-contaminated soil at the Site. Based on the Site conditions, DST has provided the following conditions for consideration:

- Removal of Contaminated Soil and Off-Site Disposal with the estimated cost in the range from \$170,000 to \$190,000 (assuming no groundwater quality issues). Estimated time frame 3 months; and
- Preliminary Quantitative Human Health and Ecological Risk Assessment with the estimated cost in the range from \$90,000 to \$110,000 to address groundwater quality issues. Estimated time frame 12 months.

9 REFERENCES

Intera Consultants Ltd., 1997. Phase II Environmental Site Assessment of the Bell Street Parking Lot, Ottawa.

Public Works and Government Services Canada-Contaminated Sites Division, 2007. PWGSC Property Review Standard.

10 CLOSURE

We trust that above meets your present requirements. If you have any questions or comments, please contact the undersigned. The limitations of this report are included in Enclosure 1.

For DST CONSULTING ENGINEERS INC.

Milan Makusa, P. Geo. Senior Technical Advisor

Maleesa

George Thomas, P. Eng. Senior Principal

Environmental Liability Assessment 289 Carling Avenue, Ottawa, Ontario DST Reference No.: OE-OT-017959 **ENCLOSURE 1 Limitations of Report**

The information, conclusions and recommendations given herein are specific to this project and this Client only; and for the scope of work described herein. This report may not be relied upon, in whole or in part, by other parties for any purposes whatsoever. Any use which a third party makes of this report, or any part thereof, or any reliance on or decisions made based on it, are the responsibility of such third parties. DST does not accept responsibility for damages, if any, suffered by any third party due to decisions or actions made based on this report.

The data, conclusions and recommendations which are presented in this report, and the quality thereof, are based on a scope of work authorized by the Client. This report cannot warranty that all conditions on, or off, the site are represented by those identified at specific locations. For example, conditions between sampling locations may differ from those encountered in the investigation and observed or measured conditions may change with time.

Any recommendations and conclusions provided, that are based on conditions or assumptions reported herein, will inherently include any uncertainty associated with those conditions or assumptions. Many aspects involving professional judgment such as subsurface models and remediation criteria contain a degree of uncertainty. This uncertainty should be managed by periodic review and refinement as additional information becomes available.

Note also that standards, guidelines and practices related to environmental investigations may change with time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.

Any topographic benchmarks and elevations documented in this report are primarily used to establish relative elevation differences between test locations and should not be used for other purposes such as grading, excavation, planning, development, etc.

Any comments given in this report on potential remediation problems and possible methods are intended only for the guidance of the designer. The scope of work may not be sufficient to determine all of the factors that may affect construction or clean-up methods and costs.

Any results from laboratory or other subcontractors reported herein have been carried out by others, and DST Consulting Engineers Inc. cannot warrant their accuracy. Similarly, DST cannot warrant the accuracy of information supplied by the Client or others.

This report may not be reproduced, in whole or in part, without written consent from DST.

Bell St Parking Lot

PWGSC Property Review Standard
DFRP# 0888 7 . Project#: 497855

DATE: July (a, 2007

Page 1

PWGSC Property Review Standard

CSMP Objectives Background:

Completed by:

Central Records file #:

The success of PWGSC in achieving its contaminated sites management goal will be based on our ability to achieve these four specific objectives:

Objective 1: To identify, document, and report contaminated sites and related liability that exist within the PWGSC crown-owned and lease to purchase real property inventory or other sites for which PWGSC has accepted responsibility.

Objective 2: To complete a regular review of PWGSC's real property inventory for contaminated sites identification and management purposes, and for development of pollution prevention and other similar corrective action measures.

Objective 3: To remediate known contaminated sites reported to the Federal Contaminated Sites Inventory (FCSI) to eliminate unacceptable risks or to apply a 'Brownfields First' development strategy, and risk manage remaining sites following due diligence.

Objective 4: To implement procedures to identify and consider contaminated sites liabilities within the PWGSC real property transaction process.

Description of PWGSC Property Review Standard:

As per Objective 2 of the 2005 Contaminated Sites Management Plan, it is necessary to complete regular reviews of the PWGSC real property inventory to verify that contamination and related liability has not been created after the date on which CSMP Objective 1 was achieved for each particular property. Regular reviews will be completed for each property at least every 3 years following the initial assessment. The property review standard is designed to identify potential contamination that may have been caused by onsite or off-site activities/sources since the time that Objective 1 had been achieved, or if there have been changes to criteria, guidelines or a change to a more sensitive land use which necessitates further review of previous results and management decisions.

Furthermore, this review process will identify pollution prevention measures that may be necessary to avoid the creation of a contaminated site. The review involves evaluating hazardous materials handling and fuel storage tank maintenance procedures and identifies the specific operational improvements that are required to prevent pollution. Respective Property Managers are responsible for the implementation of measures identified to minimize the creation of new contaminated sites on the PWGSC real property inventory.

| roperty Name/Address <u>) (6</u>) | theast corner | of Bell Stame | 1 Conling Aue |
|--|--|---|---|
| DFRP#: <u>08887</u> | | | J |
| revious Review: | | | |
| When was this property last revi | ewed? | - | |
| ast review type completed: | | | |
| SMP Objective 2 Property Revoluter (describe): | | Date Completed: | |
| ESA Status: What is the higher | st level of ESA work | been completed? (Chec | k where appropriate): |
| | Screenin | ng Level Review | Date: Salu 2002 Date: Manch 1996 Date: November 199 Date: |
| | Risk Ass | I ESA sessment ation | Date: |
| UFAR as long as t | Risk Ass Remedia and management ty | sessment ation pe in accordance to the records | Date: Date: table below: |
| VFAR as long as the contaminants wo | Risk Ass Remedia e and management ty he site main and Almain | sessment pe in accordance to the recordance to the recordanc | Date: Date: Date: table below: ent' state wherehy encapsulated - SZR |
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 Γ around surface the contaminants are not mobile, nor are they accessible to the public. - Phase I ESA.

The quality of the shallow fill is heterogenous across the entire site.

| PWGSC Property Review Standard DFRP# Project#: | Page 3 |
|--|--|
| Applicable results of KPI and audit reports:/_ | KPI |
| | |
| Confirm property ownership status from Geomatics | and obtain updated legal plan (as required): |
| Legal plans: Printed in Feb 2007. | see DFRP files at CSD |

| PWGSC F | Property Review Standard | |
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| DFRP# | . Proiect#: | |

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| PART B: | INTER | VIEW. | PROGRAM | ĺ |
|---------|-------|-------|---------|---|
| | | | | |

Identify Relevant Persons for Collecting Information and for Interviews

The purpose of the interview program is to identify any changes since the time that Objective 1 was completed which may indicate the presence of areas of potential environmental concern (APEC) and contaminants of potential concern (COPC). The following includes recommendations for potential sources of information and space to record who was actually contacted:

| TYPE OF INFORMATION | POTENITAL CONTACT | PERSON CONTACTED (Name/Title) | DATE CONTACTED |
|---|--|-------------------------------|-------------------|
| Environmental Audit, ESA and KPI Results | PWGSC, OGGO regional staff | | |
| Land titles, property boundaries | Geomatics Services Directorate | Jean Lapointe. | May 2007 |
| Property- and tenant- related information for PWGSC managed properties | PFM Property Manager regional contact | NA | |
| Property- related information for AFD-managed facilities | Asset Performance Officers (APO) | N/1A | |
| Operational Issues and Site Condition | PWGSC Site Superintendent or AFD Facility Manager or Site Superintendent | ~/A | |
| Bridges, dams, other infrastructure | PWGSC Engineering Assets Portfolio | N/A | |
| Property Divestiture and/or Acquisition Plans | PWGSC Real Estate Services | Jean Lapainte | May 2007. |
| Various | Other departmental personnel | • | |

*There is no PFM for this property because of the absence of a building facility.

The following are questions for Property Managers, or other personnel possessing relevant knowledge of the site in question. This section is to be completed by an Environmental Officer based on an interview with all of the aforementioned sources of information.

The interview was preformed dear to lack of a PFM.
Name, department, and phone number of interviewee(s):

| 2) 3) | | · |
|---------------------|---|---|
| 4)List any new docu | nentation regarding environmental conditions at the property: | |
| | | |

*No interview was performed the to lack of a PFM.

| NEW ON-SITE POTENTIAL SOURCE OF CONTAMINATION | YES/NO | IF "YES", DESCRIBE | |
|---|--------|------------------------------|--------|
| Storage Tanks (AST and UST) | 1 | | |
| Spills/ stained areas | 10 | | 1 |
| New fill | | | 1 |
| Migration from neighboring site | | | |
| Pesticides | N | | 1 |
| Hazardous materials usage/storage | | | |
| Industrial activities | N | | |
| Waste disposal or landfills | | | |
| Septic/wastewater/stormwater systems | | · | |
| including ditches | | | |
| Wells | N | | |
| Pits and lagoons | N | | |
| Parking/vehicle storage | Y | | |
| Change in property use | | PWGSC Parking lot since 1950 | S(PHT) |
| Other: | | | |
| Other: | | | |
| Other: ed on a site reconnous | | | |

Eased on a site recommussance

To the best of your knowledge, are there any of the following potential sources of contamination or environmental concerns associated with neighboring sites?

| NEW OFF-SITE POTENTIAL | YES/NO | IF "YES", DESCRIBE | |
|--------------------------------------|--------|------------------------------|---------------------------|
| SOURCE OF CONTAMINATION | | | |
| Storage Tanks (AST and UST) | | | |
| Spills/ stained areas | | | |
| New fill | | | |
| Migration from neighboring site | | | |
| Pesticides | | | |
| Hazardous materials usage/storage | 4 | Rail yard and metal research | In facility, to the west. |
| Industrial activities | ì | 1 | i Pritesal |
| Waste disposal or landfills | | | , |
| Septic/wastewater/stormwater systems | | | |
| including ditches | | | |
| Wells | | | |
| Pits and lagoons | | | |
| Parking/vehicle storage | | | |
| Change in property use | | | |
| Other: | | | |
| Other: | | | |
| Other: | | | |

Do you know of any other sources of environmental information regarding this property? Please provide information.

| NAME | CONTACT PHONE NUMBER |
|------|----------------------|
| | |
| | |
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| PwGSC Property | Review Standard | Page 6 |
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| General Notes: | | |
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PART C: SITE RECONNAISSANCE (IF REQUIRED)

| and the second s | | | | | | | | |
|--|------------------------|-------------------|---------------|---|--|--|--|--|
| Date of Site visit | PWGSC Project Nun | nber | Site Name: | | | | | |
| Tuly 6, 2007 Civid Address | 497855 | | Dell ST. Talf | Bell St. Parking Lot | | | | |
| Corner of Bell St. a | Md Carlina A | 110 | | 9 | | | | |
| Facility Contact N/A | or Continu | <u>(A</u> | | 1 (12.64) (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 | | | | |
| Name | Posi | tion | Phone Number | | | | | |
| | | | | | | | | |
| FACILITY TENANT Company / Department | 7/A. | | | | | | | |
| Company / Department | Operation | Location | Area leased | Tenants since. | | | | |
| | | | | | | | | |
| | | | | | | | | |
| LOT DESCRIPTION | | History | | | | | | |
| LOT DESCRIPTION Estimated Lot Area / Dimension | | 94.4 | | | | | | |
| l 2 7/ n ² | 15. | | | | | | | |
| Lot Topography (e.g. gentle slop | pe down to the north-w | est): | | and that | | | | |
| Lot Topography (e.g. gentle slope down to the north-west): Sand covered washalt Slopes to the south pavement flat | | | | | | | | |
| - Retaining wall | do the north | n of the avon | othe | | | | | |
| Regional Topography: | | | | | | | | |
| slopes toward southwest. | | | | | | | | |
| Regional surface water bodies, type and distance from site: | | | | | | | | |
| Ridea Canal C | House Die | - March 4k | m +) | | | | | |
| ricea Canar C | Mana Mile | of the country of | | | | | | |
| Surface Cover type and % (e.g. asphalt- 10%/ landscape – 40%/ buildings – 50%): | | | | | | | | |
| 90% ashalt 10% grass / regetation (beath/trees) | | | | | | | | |
| Surface Drainage (e.g. to municipal storm drains, infiltration to exposed soils) | | | | | | | | |
| Approximate groundwater flow: Southwest. | | | | | | | | |
| | | , (| | | | | | |

- open pothdos perached parement - Southwest corner ~ 1 m² - several 13 of 4) smaller pot rober throught the lot.
- irrigation of flowers on the East side of property, I drawn pipes.

* See attached Memo

| NEW AREAS OF POTENTIAL ENVIRONM | IENTAL CONCERN |
|--|----------------|
| Areas of staining: | |
| \mathcal{N}_{c} | |
| | |
| Areas of recent paving or patching: | |
| Some patching. | |
| Areas of stressed vegetation: | |
| No | |
| | |
| Evidence of fill: | |
| No | |
| · | |
| Evidence of dumping of waste materials: | |
| NO | |
| | |
| Odours: | |
| V_{o} | |
| W-11-/S/Sti-F-11- | |
| Wells / Sumps / Septic field: | |
| | |
| Evidence of USTs/ASTs – Vent/fill pipes, concrete pad: | |
| N_{c} | |
| | |
| Hazardous material handling and storage | |
| No | |
| Other (describe): | |
| No | |

| PROPERTY PLAN SKETCH WITH FACILITIES | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
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| Indicate the relative position of the facilities (Building #1, relevant structures etc.), drains, tanks, sumps, | | | | | | | | |
| ancillary equipment APECs and surface area use (paved, landscaped parking). | | | | | | | | |
| Note: The previous ESA report completed for the property may be the best sources of property layout information and should be referred to and used when developing this updated plan. | | | | | | | | |

| PWGSC P | roperty Review Standard | |
|---------|-------------------------|--|
| DFRP# | . Project#: | |

PART D: SUMMARY AND RECOMMENDATIONS

SUMMARY RESULTS

Check if N/A and no further action is required

| APEC# | DESCRIPTION AND LOCATION (indicate if on-site or off-site) | SUSPECTED SOURCE | COPC(s) | POTENTIALLY AFFECTED MEDIA | GPS COORDINATES | ACTION PLAN SUMMARY |
|-------|--|---------------------|---------|----------------------------------|--------------------|---------------------------------|
| 1 | between pawement and bedrock | | Metals | soil only | | Repair asphalt or clean up soil |
| | | | | | | |
| | | | | | | |

FURTHER ENVIRONMENTAL SITE ASSESSMENT OR OTHER ACTION REQUIRED

| PROPOSED ACTION | YES/NO | NOTES | GROUP/PERSON RESPONSIBLE |
|---|--------|--|---|
| ESA Action | | 100 Page 100 | |
| . • Phase I ESA | | | |
| Phase II ESA | | | |
| Phase III ESA | | | |
| Supplemental ESA | | | |
| Monitoring | | | |
| Other (specify) | V | Remissurlare | or clean-up impacted soil (see mon |
| Pollution Prevention Measures Required | | 7 | or clean-up impacted soil (see mon 4 Michael Skewiercz (PWGSC) |
| RAP/RMP Action | | | |
| Supplemental Risk Assessment | | | |
| Other: | | | |
| HAZMAT Handling & Storage Audit | | | |
| UST/AST Audit Required | | | |
| Hazardous Building Materials Survey | | | |
| Solid Waste Management Audit | | | |
| Wastewater/Stormwater System Inspection | | | |
| Maintenance Activities (i.e. clean out catchbasins) | | | |
| Other | | | |

| PWGSC | Property Review Standard | |
|--------|--------------------------|--|
| DFRP#_ | . Project#: | |

Page 11

Attachments:

- Site Photographs
- Other relevant documentation

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Memorandum

To: Cc: Michael Skwiercz Miguel Larivière

From: Date:

Kellie Piché August 13, 2007

Subject:

Findings and Recommendations for Bell Street Parking Lot, DFRP: 08887

Mr. Skwiercz,

This letter is being sent as a result of the findings from a recent site visit to the Bell Street parking lot. This visit is part of the Contaminated Sites Management Plan (CSMP) of Public Works and Government Services Canada (PWGSC) and was conducted by the PWGSC's Contaminated Sites Division on July 6, 2007. As the property manager of the site in question, please be advised of the following findings and recommendations.

<u>Findings</u>

The subject site is a 1 271 meter square parcel of land located on the corner of Carling Avenue and Bell Street, in Ottawa, Ontario, which currently serves as a parking lot. At the time of the visit, approximately half a dozen parked cars occupied the site. The site visit, as part of a PWGSC *Property Review Standard*, identified the following sources of potential environmental concerns:

• Damaged asphalt, including several large cracks and potholes, reaching sizes of up to approximately one meter square in some areas.

A Phase II Environmental Site Assessment of the Bell Street parking lot was done in November of 1997 and identified the soil contained "metal concentrations greater than the assessed criteria" (1997 CCME, 1991 CCME and 1997 MOEE guidelines). However, no further action was deemed necessary due to the fact that "the identified contaminated soil [was] encapsulated between the asphalt at ground surface and the bedrock at approximately 0.7 m below ground surface". This condition is no longer valid due to the poor condition of the asphalt, which could allow for possible seepage of surface water into the exposed contaminated soil. This could lead to the mobilization of the contaminants, possibly impacting the underlying groundwater and, possibly, the adjoining properties.

Memorandum to Mr. Michael Skwiercz re: Bell Street Parking Lot (DFRP: 08887) Page 2

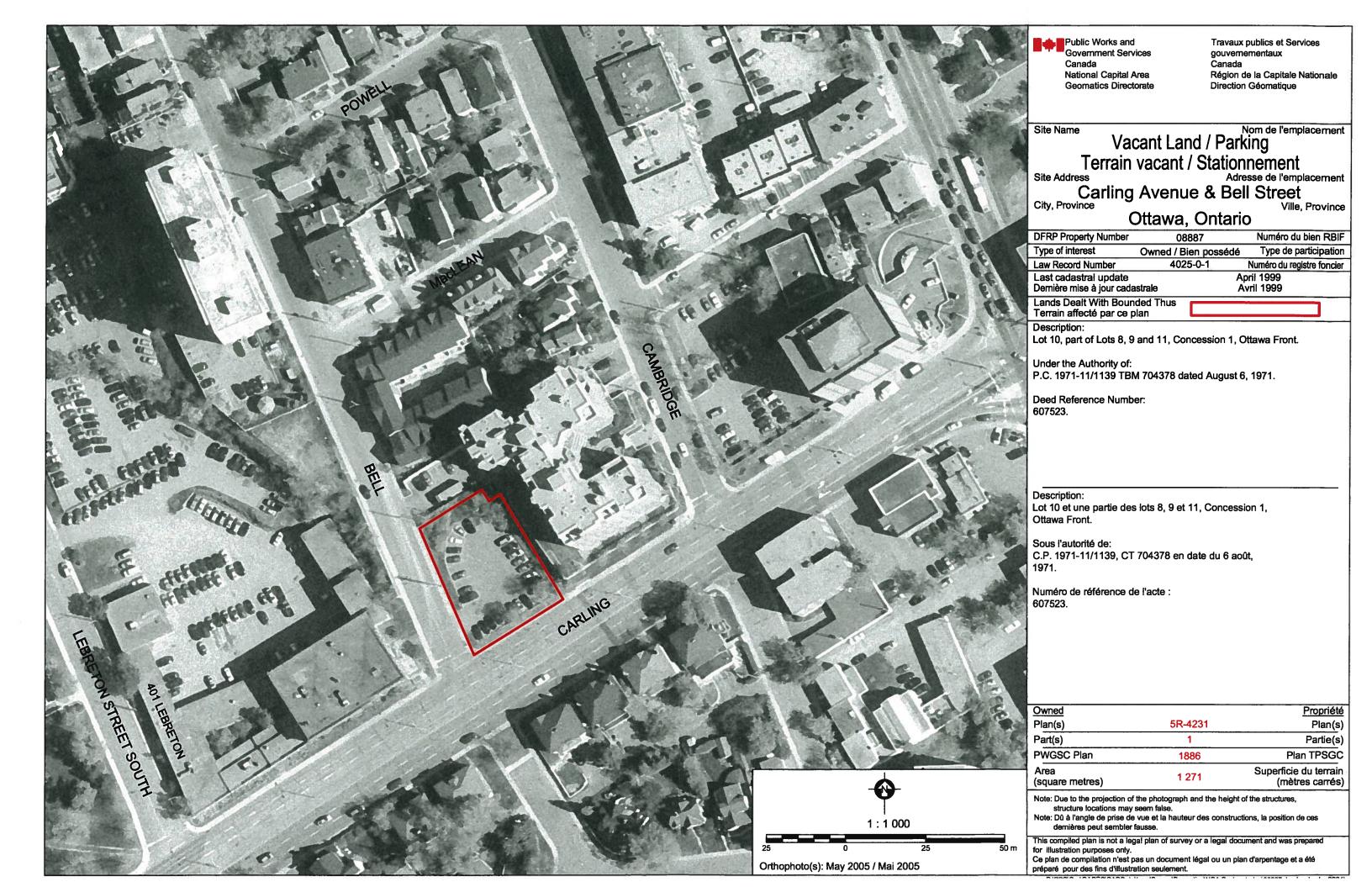
Recommendations

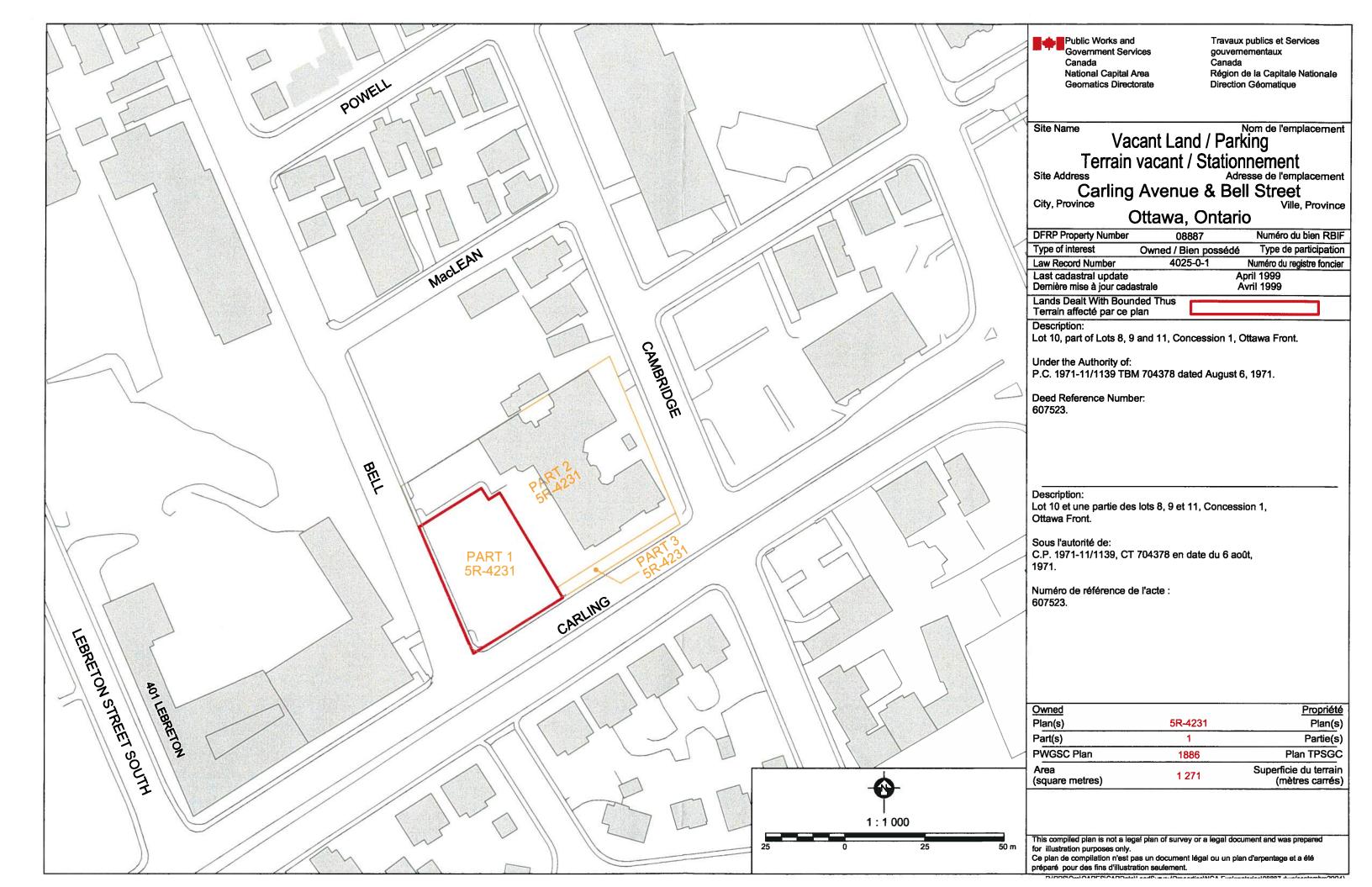
Based on the available information at this time, it is recommended that the asphalt be patched and sealed where cracks and potholes are observed. As an alternative, the identified contaminated soil could be excavated, removed from the property, disposed-of at a registered facility, and replaced with compacted, imported, clean fill.

I trust that this memo meets your requirements. If you have any questions on the enclosed, please do not hesitate to contact the undersigned.

Best Regards, PWGSC-Contaminated Sites Division

Kellie Piché Junior Contaminated Sites Analyst Miguel Larivière P. Eng. Contaminated Sites Engineer







INTERA Consultants Ltd. • 265 Carling Ave., Suite 208 • Ottawa, Ontario • K1S 2E1 • Tel: (613) 232-2525 • Fax: (613) 232-7149

Phase II Environmental Site Assessement of the Bell Street Parking Lot Ottawa, Ontario

Final Report

Prepared for

Public Works and Government Services Canada Environmental Services Section

Prepared by

INTERA Consultants Limited Ottawa, Ontario

97-237

November 13, 1997

Ottawa • Toronto • California • Texas • Washington, D.C. • France • Switzerland

EXECUTIVE SUMMARY

The Bell Street Parking Lot is a Public Works and Governement Services Canada (PWGSC) owned parking lot located at the north east corner of Bell Street and Carling Avenue, in Ottawa, Ontario. A Phase I environmental site assessment (ESA) indicated that historical land use on the Bell Street Parking Lot and on adjacent properties posed potential for impact to the quality of soil and groundwater.

Field investigations were carried out to assess the quality of soil and groundwater on the subject property, and in the context of likely future sale of the property, to recommend any necessary remedial action.

Five boreholes were drilled on the subject property, and two of the boreholes were instrumented with groundwater monitoring wells. Field evidence of contamination was noted during the field investigations, and was used to select representative samples of soil and groundwater for laboratory analysis.

The geology of the site was determined to consist of a thin layer (approximately 0.7 m) of fill, overlying shaley limestone. The only significant field evidence of contamination was the presence of staining, and debris in the shallow soil fill.

The most stringent of either CCME or MOEE soil quality guidelines for residential/parkland land use were selected as soil assessment criteria for the Bell Street Parking Lot.

Laboratory analysis of the shallow fill indicated the presence of heavy metals, primarily lead, molybdenum, barium, copper, and zinc. The results indicated that the majority of the soil was contaminated to levels marginally above the soil assessment criteria. One soil sample, however, contained lead at a concentration of six times the criteria.

Laboratory analysis of groundwater indicated that the groundwater has not been significantly impacted by current or former land use.

It was concluded that the quality of the shallow fill is heterogeneous across the entire site, and that metals concentrations at any given point may exceed the assessment criteria. It was also concluded that while the site is maintained in its present state, the contaminants are immobile and encapsulated, and that there is no apparent regulatory requirement for remediation. If, based on internal policy or economic evaluation, remediation is chosen as the preferred option, INTERA recommends the following remedial method:

• Excavation of the approximately 850 m³ of potentially contaminated fill, on-site sorting based on visual evidence of contamination, and off-site disposal of the contaminated portion of the excavated soil.

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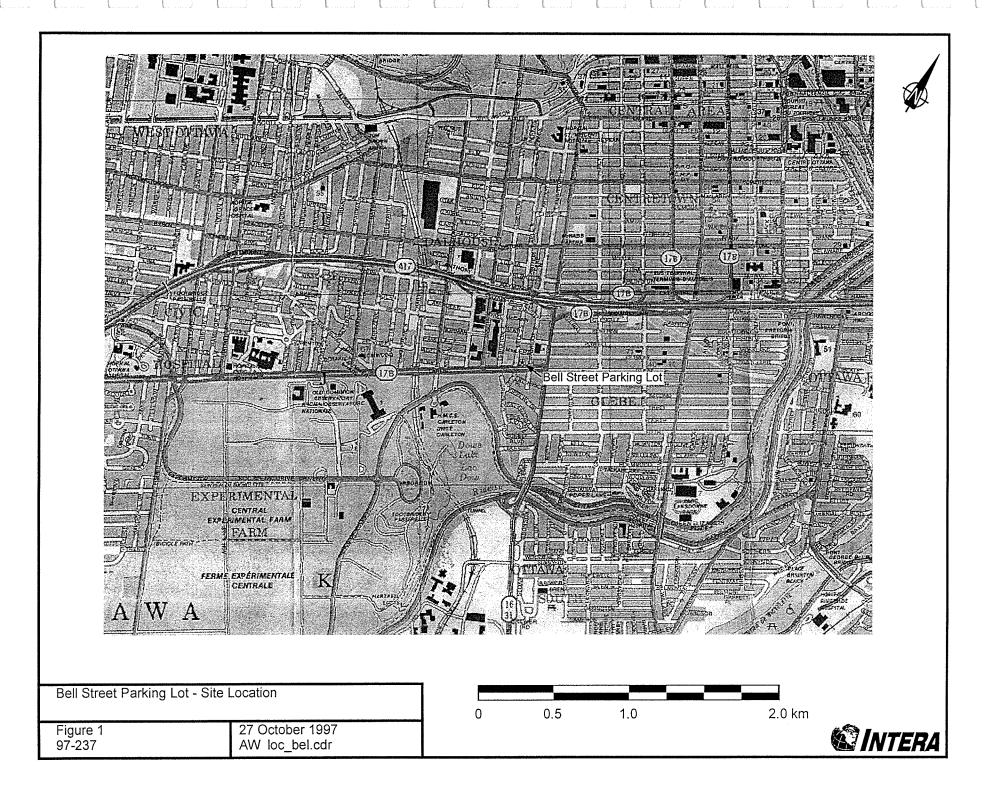
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1. INTRODUCTION

The Bell Street Parking Lot is a Public Works and Governement Services Canada (PWGSC) owned parking lot located at the north east corner of Bell Street and Carling Avenue, in Ottawa, Ontario. The site location is shown in Figure 1. The property was the subject of a Phase I Environmental Site Assessment (ESA) conducted in March 1996 (Ecological Services for Planning Ltd., 1996). The Phase I ESA determined that the property had various uses since its development. The land was originally used as part of a quarry. From the 1930's until the early 1950's, the property was used as part of a works yard for the "Ottawa Suburban Roads Commission". From the late 1950's until the present, the property was used as a PWGSC parking lot. These land uses, as well as adjacent land uses such as a rail yard and metals research facility, both to the west, pose some potential for impact to the quality of soil and groundwater on the subject property.

The purpose of this Phase II ESA was to assess the quality of soil and groundwater on the subject property, and to provide recommendations for remediation of contaminated soil or groundwater, if necessary. The context for this Phase II ESA is that the land will likely be put on the market for sale.





2. FIELD INVESTIGATIONS

The field investigations consisted of the drilling of boreholes, sampling of soil and rock, installation of monitoring wells, sampling of groundwater, and submission of representative samples of soil and groundwater for chemical analysis. The field investigations are described in further detail in the following paragraphs.

2.1 Pre-Investigation Activities

Pre-investigation activities consisted of a review of existing data, site inspection, and location of underground utilities for the purpose of determining appropriate borehole and monitoring well locations.

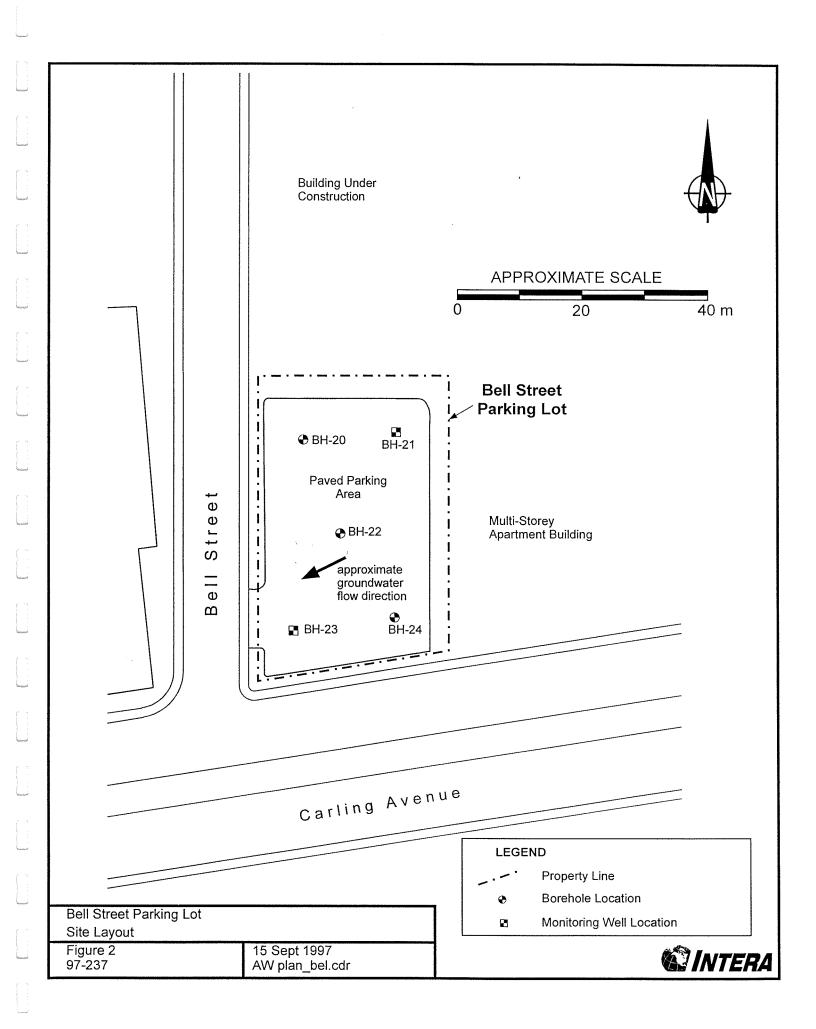
The data review consisted of a detailed inspection of the Phase I ESA report. A site inspection was carried out on September 17, 1997. Borehole locations were marked during the site inspection. Following the marking of borehole locations, underground utility clearances were obtained from utility companies and PWGSC.

2.2 Borehole Drilling and Soil Sampling

Drilling and soil sampling was completed on September 25, 1997 by George Downing Estate Drilling Ltd, using a truck-mounted soil augering rig with hollow stem augers and split spoon samplers. A total of five (5) boreholes were drilled at the Bell Street parking lot. Borehole locations are shown in Figure 2. Downhole equipment was cleaned between samples and boreholes to prevent cross contamination of samples. During drilling, continuous soil samples were collected and logged in the field for soil type, colour, and visual and olfactory evidence of contamination. Soil samples were screened for headspace combustible vapours and organic vapours with a Gastech Tracetechtor (combustible gas indicator or CGI), and a PE Photovac 2020 Photoionization Detector (organic vapour meter or PID), respectively. These instruments, which detect vapours produced by soil, are used to provide an indication of organic contamination. Stratigraphic descriptions and headspace vapour measurements of recovered soil samples are shown on stratigraphic logs in Appendix A.

Three of the five boreholes (BH-20, BH-22, and BH-24) were drilled to refusal on bedrock (approximately 0.7 m below ground surface). Two of the five boreholes (BH-21, and BH-23) were drilled to a total depth of approximately 3 to 4 m below ground surface. Diamond coring was used to drill into bedrock. Cores were recovered, and inspected for fracture presence, spacing, orientation, and staining. RQD (Rock Quality Designation) was determined for each core run.





2.3 Monitoring Well Installation

Upon completion of drilling, monitoring wells were installed in two boreholes (BH-21, and BH-23). The locations of the monitoring wells are shown in Figure 2. Monitoring well screens were installed to straddle the water table. Wells consisted of 38 mm diameter by 3 m long PVC screens and risers cut to length. The annular space adjacent to well screens was backfilled with clean, coarse silica sand. The annular space adjacent to risers was backfilled with bentonite seals and drill cuttings. Wells were finished at ground surface with flush, water-proof steel casings. All wells were surveyed for elevation relative to an arbitrary site datum. The completion details of the monitoring wells are shown on the appropriate borehole logs included in Appendix A.

2.4 Groundwater Sampling

All groundwater sampling activities were conducted on September 29, 1997. Prior to groundwater sampling water levels were measured in all monitoring wells using an electronic water level tape.

Groundwater samples were collected using dedicated inertial hand pumps. A minimum of three (3) well volumes were purged from each well prior to sampling. Low yield wells were purged dry a minimum of three times and sampled as the water level recovered. Any field evidence of contamination was noted during purging. Purge water was assessed for the presence of odour, sheen, and separate-phase liquids. These observations were used in the selection of samples for chemical analysis.

Samples for volatiles analysis were collected in pre-cleaned, laboratory-supplied 40 mL vials, while samples for non-volatiles were collected in 1 L bottles.

2.5 Analytical Program

Samples representative of on-site soil and groundwater conditions were submitted for chemical analyses in appropriate glass sample containers precleaned by the analytical laboratory. In general, all soil samples with staining or other evidence of contamination were submitted for metals analysis. Soil samples with elevated CGI readings were submitted for benzene, toluene, ethylbenzene and xylene (BTEX), and total petroleum hydrocarbon (TPH) analysis. Soil samples with elevated organic vapour meter readings, black "tarry" staining, and those containing wooden debris (possibly containing creosote) were submitted for polycyclic aromatic hydrocarbons (PAH) analysis. These sample selection criteria were developed based on experience at similar sites in the area.

All groundwater samples were submitted for BTEX/TPH, while a selected number were submitted for volatile organic compounds (VOCs) and PAHs.

Samples were submitted to Paracel Laboratories of Ottawa, a CAECL accredited laboratory.



3. RESULTS

3.1 Site Geology and Hydrogeology

The site geology consists of a thin layer of fill overlying shaley limestone. Fill thicknesses ranged from 0.51 to 0.83 m, with an average fill thickness of 0.66 m. The fill was typically black, brown, or orange stained sand. The limestone bedrock was grey with frequent mud seams, and shaley interbeds. Fractures were present in the recovered cores, with greater fracture frequency in the upper 2 m of bedrock.

The results of the water level survey are presented in Table 1. These results indicate that the water table is located within the upper 1 m of bedrock (within 2 m of ground surface). Based on topography and other available information, it is most likely that the direction of groundwater flow is towards the apartment building to the east or towards 401 LeBreton Street to the the west or southwest.

No significant odour or visual evidence of contamination was noted on the groundwater. Groundwater from BH-23 was, however, slightly foamy (foaminess can sometimes indicate organic-type contamination).

Table 1 Water Level Survey Results (September 29, 1997)

| | Ground Surface Elevation (m ASD) | PVC Top Stick-Up (m) PVC Top Elevation (m ASD) | | Water Level (m BPT) | Water Table Elevation (m ASD) |
|-------|--|--|--------|------------------------|-------------------------------------|
| BH-21 | 100.07 | -0.07 | 100.00 | 1.70 | 98.30 |
| BH-23 | 99.52 | -0.05 | 99.47 | 0.88 | 98.59 |

Note: BH-21 PVC Top chosen as 100.00 m above abitrary site datum.

3.2 Soil and Groundwater Assessment Criteria

The soil and groundwater assessment criteria chosen for this site are as follows:

Soil

- Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, Surface soil criteria for residential/parkland land use for a nonpotable groundwater condition.
- Recommended Canadian Soil Quality Guidelines, Canadian Council of Ministers of the Environment, March 1997. Guideline for residential/parkland land use.



[&]quot;Stick-Up" is distance of PVC top above ground surface

• Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Interim remediation criteria for soil, residential/parkland land use.

Soil guidelines for residential/parkland land use were chosen because the land is zoned as residential. The 1997 CCME soil quality guidelines are only available for a limited number of parameters. For parameters for which no 1997 guideline exists, the 1991 CCME interim guidelines were used.

Groundwater

- Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, groundwater criteria for a nonpotable groundwater condition.
- Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Remediation criteria for drinking water.

For the assessment of soil and groundwater quality, an "exceedence" was considered to be an analytical result that was greater than the most stringent of the available assessment criteria. This approach was used because, when the future land use is not precisely known, it is prudent to consider the most stringent criteria as that which may eventually be applied.

3.3 Soil Analytical Results and Discussion

Soil analytical results for metals, BTEX, and PAH are presented in Tables 2, 3, and 4, respectively. The MOEE and CCME soil assessment criteria are also presented in these tables. Soils with concentrations higher than either the CCME or MOEE assessment criteria are highlighted in large bold text.

Table 2 indicates that one sample of shallow fill from each of the five boreholes (BH-20, 21, 22, 23, and 24) was submitted for metals analysis. The table indicates that the soil samples from three of the five boreholes contained metals in exceedence of either the CCME or MOEE criteria. Soil from BH-20 ($14\mu g/g$) and BH-21 ($12\mu g/g$) both contain molybdenum in excess of the $10\mu g/g$ CCME assessment criteria, but less than the 40 $\mu g/g$ MOEE assessment criteria. No other exceedences were detected in these two soil samples. Soil from BH-23 contained lead ($1200\mu g/g$) at a concentration in excess of both the $140~\mu g/g$ CCME, and the 200 $\mu g/g$ MOEE assessment criteria. Exceedences of barium, copper and zinc were also detected in this soil sample. Concentrations of these three parameters all exceeded the CCME assessment criteria, but were less than the MOEE assessment criteria.



Table 2 Soil Analytical Results - Metals

| Borehole | | | BH-20 | BH-21 | BH-22 | BH-23 | BH-24 | MOEE | CCME |
|------------|-------|------|-----------|-----------|-----------|-----------|-----------|---------|----------|
| Depth | | | 0.15-0.76 | 0.15-0.76 | 0.15-0.76 | 0.15-0.76 | 0.15-0.76 | Table B | res/park |
| | Units | MDL | | | | | | | |
| Aluminum | μg/g | 1.0 | 4800 | 10000 | 12000 | 14000 | 4200 | na | na |
| Barium | μg/g | 1.0 | 200 | 500 | 310 | 650 | 59 | 750 | 500 |
| Beryllium | μg/g | 1.0 | 1 | 1 | 1 | 1 | 0 | 1.2 | 4 |
| Cadmium | μg/g | 0.50 | nd | nd | nd | nd | nd | 12 | 5 |
| Calcium | μg/g | 100 | 49000 | 68000 | 42000 | 78000 | 110000 | na | na |
| Chromium | μg/g | 1.0 | 12 | 12 | 13 | 18 | 9 | 750 | 64 |
| Cobalt | μg/g | 1.0 | 6 | 4 | nd | nd | 5 | 40 | 63 |
| Copper | μg/g | 1.0 | 26 | 16 | 31 | 75 | 14 | 225 | 63 |
| Iron | μg/g | 1.0 | 25000 | 27000 | 32000 | 32000 | 16000 | na | na |
| Lead | μg/g | 1.0 | 65 | 100 | 96 | 1200 | 110 | 200 | 140 |
| Magnesium | μg/g | 100 | 4600 | 7000 | 2800 | 7200 | 27000 | na | na |
| Manganese | μg/g | 1.0 | 200 | 200 | 180 | 410 | 260 | na | na |
| Molybdenum | μg/g | 1.0 | 14 | 12 | 4 | 5 | 4 | 40 | 10 |
| Nickel | μg/g | 1.0 | 11 | 13 | 18 | 15 | 10 | 150 | 100 |
| Potassium | μg/g | 100 | nd | nd | 500 | 700 | 1000 | na | na |
| Silver | μg/g | 1.0 | nd | nd | nd | nd | nd | 20 | 20 |
| Sodium | μg/g | 25 | 400 | 600 | 550 | 750 | 400 | na | na |
| Strontium | μg/g | 1.0 | 110 | 290 | 190 | 240 | 120 | na | na |
| Thallium | μg/g | 4.0 | na | na | nd | nd | na | 4.1 | na |
| Vanadium | μg/g | 1.0 | 14 , | 18 | 26 | 27 | 10 | 200 | 130 |
| Zinc | μg/g | 1.0 | 83 | 70 | 55 | 220 | 70 | 600 | 200 |

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

na = Not available

MOEE Table B Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June

1996. Table B, Surface soil criteria for residential/parkland land use for a nonpotable groundwater condition.

CCME res/park Canadian Soil Quality Guidelines, Canadian Council of Ministers of the Environment, March 1997. Guideline

for residential/parkland land use.

-or where 1997 guidelines do not exist-

Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Interim remediation criteria for soil, residential/parkland land use.

220 Large bold text - exceeds CCME criteria only

1200 Large bold italic text - exceed CCME and MOEE criteria

Table 3 Soil Analytical Results - BTEX/TPH

| Borehole | | | BH-21 | MOEE | ССМЕ |
|--------------------------------|-------|-------|-----------|---------|----------|
| Depth | | | 0.15-0.76 | Table B | res/park |
| | Units | MDL | | | |
| Benzene | ug/g | 0.038 | nd | 5.3 | 0.5 |
| Ethylbenzene | ug/g | 0.038 | nd | 34 | 1.2 |
| Toluene | ug/g | 0.038 | nd | 290 | 0.8 |
| m/p-Xylene | ug/g | 0.038 | nd | na | na |
| o-Xylene | ug/g | 0.038 | nd | na | na |
| Xylenes (m/p+o) | ug/g | 0.038 | nd | 34 | 1 |
| C5-C10 Petroleum Hydrocarbons | ug/g | 10 | nd | na | na |
| C10-C24 Petroleum Hydrocarbons | ug/g | 10 | nd | na | na |
| Total Petroluem Hydrocarbons | ug/g | 10 | nd | 1000 | na |

Table 4 Soil Analytical Results - PAHs

| | Borehole | | | BH-21 | MOEE | CCME |
|------------------------|----------|-------|--------|-----------|---------|----------|
| | Depth | | | 0.15-0.76 | Table B | res/park |
| | | Units | MDL | | | · |
| Acenaphthene | | ug/g | 0.0035 | nd | 1000 | na |
| Acenaphthylene | | ug/g | 0.0035 | 0.033 | 100 | na |
| Anthracene | | ug/g | 0.0035 | 0.033 | 28 | na |
| Benzo[a]anthracene | | ug/g | 0.0035 | 0.23 | 40 | 1 |
| Benzo[a]pyrene | | ug/g | 0.0035 | 0.23 | 1.2 | 0.7 |
| Benzo[b+k]fluoranthene | | ug/g | 0.0070 | 0.26 | 12 | 1 |
| Benzo[ghi]perylene | ٠ | ug/g | 0.0035 | 0.099 | 40 | na |
| Biphenyl | , | ug/g | 0.0035 | 0.066 | 4.3 | na |
| Chrysene | | ug/g | 0.0035 | 0.26 | 12 | na |
| Dibenzo[a,h]anthracene | | ug/g | 0.0035 | nd | 1.2 | 1 |
| Fluoranthene | | ug/g | 0.0035 | 0.26 | 40 | na |
| Fluorene | | ug/g | 0.0035 | nd | 350 | na |
| Indeno[1,2,3-cd]pyrene | | ug/g | 0.0035 | 0.066 | 12 | 1 |
| 1-Methylnaphthalene | | ug/g | 0.0035 | 0.63 | 280 | na |
| 2-Methylnaphthalene | | ug/g | 0.0035 | 0.69 | 280 | na |
| Naphthalene | | ug/g | 0.0035 | 0.46 | 40 | 0.6 |
| Phenanthrene | | ug/g | 0.0035 | 0.46 | 40 | 5 |
| Pyrene | | ug/g | 0.0035 | 0.3 | 250 | 10 |

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

na = Not available

MOEE Table B Guideline for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, June 1996. Table B, Surface soil criteria for residential/parkland land use for a nonpotable groundwater condition.

CCME res/park Canadian Soil Quality Guidelines, Canadian Council of Ministers of the Environment, March 1997. Guideline for residential/parkland land use.

-or where 1997 guidelines do not exist-



Interim Canadian Environmental Quality Criteria for Contaminated Sites, Canadian Council of Ministers of the Environment, September 1991. Interim remediation criteria for soil, residential/parkland land use.

Table 3 indicates that only soil from BH-21 was submitted for BTEX/TPH analysis. This sample was submitted because of a high combustible vapour reading. The analytical results presented in Table 3 indicate that BTEX/TPH was not detected in the sample.

Table 4 indicates that only soil from BH-21 was submitted for PAH analysis. This sample was submitted because of black staining. The analytical results indicate that PAHs were detected, but that the concentrations do not exceed CCME or MOEE assessment criteria.

The soil analytical results generally indicate that the only contaminants of concern at the Bell Street Parking Lot are metals. The results indicate that the majority of the soil analysed was contaminated to levels marginally above applicable soil guidelines for residential/parkland land use. One soil sample out of the five submitted was contaminated to levels significantly above applicable soil guidelines (the 1200 μ g/g of lead in BH-23 is six times the CCME criteria for lead).

3.4 Groundwater Analytical Results and Discussion

Groundwater analytical results for BTEX, PAHs, and VOCs are presented in Tables 5, 6, and 7, respectively. The tables indicate that groundwater from both BH-21 and BH-23 was analysed for BTEX/TPH, while only groundwater from BH-23 was analysed for PAHs and VOCs. The tables indicate that none of the analysed parameters were detected in the groundwater samples.

Table 5 Groundwater Analytical Results - BTEX

| Borehole | | | BH-21 | BH-23 |
|--------------------------------|-------|--------|-------|-------|
| | Units | MDL | | |
| Benzene | mg/L | 0.0005 | nd | nd |
| Ethylbenzene | mg/L | 0.0005 | nd | nd |
| Toluene | mg/L | 0.0010 | nd | nd |
| m/p-Xylene | mg/L | 0.0010 | nd | nd |
| o-Xylene | mg/L | 0.0005 | nd | nd |
| Xylenes (m/p+o) | mg/L | 0.0005 | nd | nd |
| C5-C10 Petroleum Hydrocarbons | mg/L | 0.10 | nd | nd |
| C10-C24 Petroleum Hydrocarbons | mg/L | 0.10 | nd | nd |
| Total Petroleum Hydrocarbons | mg/L | 0.10 | nd | nd |

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

na = Not available



Table 6 Groundwater Analytical Results - PAHs

| Borehole | | | BH-23 |
|------------------------|--------|-------|-------|
| | Units | MDL | |
| Acenaphthene | ug/L | 0.10 | nd |
| Acenaphthylene | ug/L | 0.10 | nd |
| Anthracene | ug/L | 0.10 | nd |
| Benzo[a]anthracene | ug/L | 0.10 | nd |
| Benzo[a]pyrene | ug/L | 0.010 | nd |
| Benzo[b+k]fluoranthene | ug/L | 0.20 | nd |
| Benzo[ghi]perylene | ug/L | 0.10 | nd |
| Biphenyl | ug/L | 0.10 | nd |
| Chrysene | ug/L | 0.10 | nd |
| Dibenzo[a,h]anthracene | ug/L | 0.10 | nd |
| Fluoranthene | ug/L | 0.10 | nd |
| Fluorene | ug/L | 0.10 | nd |
| Indeno[1,2,3-cd]pyrene | ug/L | 0.10 | nd |
| 1-Methylnaphthalene | ug/L | 0.10 | nd |
| 2-Methylnaphthalene | . ug/L | 0.10 | nd |
| Naphthalene | ug/L | 0.10 | nd |
| Phenanthrene | ug/L | 0.10 | nd |
| Pyrene | ug/L | 0.10 | nd |

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

Table 7 Groundwater Analytical Results - VOCs

| Borehole | | | BH-23 |
|---------------------------|-------|--------|-------|
| | Units | MDL | |
| Benzene | mg/L | 0.0005 | nd |
| Bromodichloromethane | mg/L | 0.0004 | nd |
| Bromoform | mg/L | 0.0008 | nd |
| Bromomethane | mg/L | 0.0010 | nd |
| Carbon Tetrachloride | mg/L | 0.0005 | nd |
| Chlorobenzene | mg/L | 0.0004 | nd |
| Chloroethane | mg/L | 0.0010 | nd |
| Chloroform | mg/L | 0.0006 | nd |
| Chloromethane | mg/L | 0.0030 | nd |
| Dibromochloromethane | mg/L | 0.0005 | nd |
| 1,2-Dibromoethane | mg/L | 0.0010 | nd |
| m-Dichlorobenzene | mg/L | 0.0004 | nd |
| o-Dichlorobenzene | mg/L | 0.0004 | nd |
| p-Dichlorobenzene | mg/L | 0.0004 | nd |
| 1,1-Dichloroethane | mg/L | 0.0005 | nd |
| 1,2-Dichloroethane | mg/L | 0.0005 | nd |
| 1,1-Dichloroethylene | mg/L | 0.0006 | nd |
| c-1,2-Dichloroethylene | mg/L | 0.0004 | nd |
| t-1,2-Dichloroethylene | mg/L | 0.0010 | nd |
| 1,2-Dichloropropane | mg/L | 0.0007 | nd |
| c-1,3-Dichloropropene | mg/L | 0.0004 | nd |
| t-1,3-Dichloropropene | mg/L | 0.0005 | nd |
| Ethylbenzene | mg/L | 0.0005 | nd |
| Methylene Chloride | mg/L | 0.0040 | nd |
| Styrene | mg/L | 0.0004 | nd |
| 1,1,2,2-Tetrachloroethane | mg/L | 0.0006 | nd |
| Tetrachloroethylene | mg/L | 0.0005 | nd |
| Toluene | mg/L | 0.0010 | nd |
| 1,1,1-Trichloroethane | mg/L | 0.0004 | nd |
| 1,1,2-Trichloroethane | mg/L | 0.0006 | nd |
| Trichloroethylene | mg/L | 0.0004 | nd |
| Trichlorofluoromethane | mg/L | 0.0010 | nd |
| 1,3,5-Trimethylbenzene | mg/L | 0.0005 | nd |
| Vinyl Chloride | mg/L | 0.0005 | nd |
| m/p-Xylene | mg/L | 0.0010 | nd |
| o-Xylene | mg/L | 0.0005 | nd |

MDL = Method detection limit (or lowest practical quantitation limit)

nd = Not detected (or lower than MDL)

4. CONCLUSIONS

The following conclusions have been made from the data collected during the course of this Phase II environmental site assessment of the Bell Street Parking Lot:

- The most stringent of either the 1997 CCME soil quality guidelines, the 1991 CCME interim remediation criteria, or the 1997 MOEE surface soil criteria (residential/parkland land use) were selected as the soil assessment criteria for the Bell Street Parking Lot. The most stringent criteria were chosen since these criteria may be applied by other parties in the future to determine the desirability of the land for development.
- A layer of fill approximately 0.7 m thick is contaminated to varying levels with heavy metals. Three out of five boreholes (BH-20, BH-21, and BH-23) were determined to contain soil with metals concentrations greater the assessment criteria. Spacial distribution of concentrations of metals in this soil are heterogeneous. The range of metals concentrations in soil across the site is likely similar to that encountered in the five boreholes, but prediction of actual metals concentrations at a given point (outside the five boreholes) is not possible.
- Assuming that all fill that exists on the site may contain metals at levels greater than the assessment criteria, a volume of approximately 850 m³ of soil would require remediation in order to bring the soil quality to below the assessment criteria. For this volume of soil, the most cost-effective remedial measure would likely be excavation, on site sorting based on evidence of contamination, and off-site disposal of the contaminated portion of excavated soil.
- BTEX/TPH was not detected in soil at this site.
- PAHs are present in soil at levels below the assessment criteria.
- Groundwater at the site has not been significantly impacted by current or former land use.
- Since the identified contaminated soil is effectively encapsulated between the asphalt at ground surface and the bedrock at approximately 0.7 m below ground surface, the contaminants are not mobile, nor are they accessible to the public. The contaminated soil does not represent an adverse impact to human health or the environment. For this reason, while the site is maintained in its present state, there is no apparent regulatory requirement for remediation of the contaminated soil.



5. RECOMMENDATIONS

Based on the conclusion that there is no apparent regulatory requirement for remediation of the contaminated soil, decisions regarding its remediation should be made based on internal policy, or on economic evaluation. If remediation of the soil is considered to be the preferred course of action for this site, we recommend the following remedial method:

• Excavation of the identified volume of contaminated fill (upper limit of 850 m³), on-site sorting based on visual evidence of contamination, and off-site disposal of the contaminated portion of the excavated soil.



6. REFERENCES

Canadian Council of Ministers of the Environment, Recommended Canadian Soil Quality Guidelines, March 1997.

Canadian Council of Ministers of the Environment, Interim Canadian Environmental Quality Criteria for Contaminated Sites, September 1991.

Ecological Services for Planning Ltd., Phase I Environmental Site Assessement, Booth Street Complex, 401 LeBreton Street and 588 Booth Street, Ottawa, Ontario. PWGSC Project Number 708222, March, 1996.

Ontario Ministry of the Environment and Energy, Guideline for Use at Contaminated Sites in Ontario. June 1996.



7. CLOSURE

This report has been prepared for the exclusive use of Public Works and Government Services Canada using a methodology for conducting an environmental site assessment that is acceptable within the profession. Data obtained from test pit, borehole and/or monitoring well investigations represent the conditions about a limited area surrounding the sampling location and as such can be expected to be variable with respect to location and time. It should be noted that results of an investigation of this type should in no way be construed as a warranty that the site is free from any and all contamination from past or current practices.

INTERA Consultants Ltd. has exercised professional judgement in collecting and analyzing the information and in formulating recommendations based on the results of the study. The evaluation and conclusions contained in the report have been prepared on the basis of conditions in evidence at the time of site investigation and on the basis of information provided to INTERA. Accordingly INTERA cannot accept responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of persons providing information.

The mandate of INTERA Consultants Ltd. is to perform the given tasks within the guidelines prescribed by the client and with the quality and due diligence expected within the profession. No other warranty or representation, expressed or implied, as to the accuracy of the information or recommendations is included or intended in this report. INTERA Consultants Ltd. hereby disclaims any liability or responsibility to any person or party, other than the party to whom this report is addressed, for any loss, damage, expense, fines or penalties which may arise or result from the use of any information or recommendations contained in this report by any other party. Any use of this report constitutes acceptance of the limits of INTERA's liability. INTERA's liability extends only to its client for the total amount of fees received from the client for this specific project and not to other parties who may obtain this report.

Respectfully Submitted,

Anthony West, P. Eng.

Project Engineer

Appendix A - Borehole Logs

| | В | OR | ЕНО | LE | STRATIGRAPHIC A | AND INSTRUMEN | ITATION LOG |
|---|----------------------|-----------|-----------|------|---|----------------------|--------------------|
| Project | No.: | | | ! | 97-237 | Borehole No.: | BH-22 |
| Client: | | | | F | PWGSC | Date Completed: | September 25, 1997 |
| Location | n: | | 40 | 1 Le | Breton Street | Drilling Method: | Hollow Stem Auger |
| Ground | Surfa | ce E | levatio | on: | | Drill Supervisor: | K.B.T. |
| DEPTH (mBGS) | BLOWS | CGI (ppm) | PID (ppm) | 907 | STRATIG DESCR | | INSTALLATION |
| - o - | 5 11 16 50+ | 14 | 0.0 | | FILL - brown clayey sand overlying black and - no odour | | |
| - 1 - 1 - 2 - 3 3 4 4 | | | | | Borehole terminated | on bedrock @ 0.61 mB | GS |
| -5 | | | | | | | ©INTERA |

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| | E | BOR | EHO | LE | STRATIGRAPHIC A | AND INSTRUMENTA | ATION LOG |
|----------------------------------|--|-----------|-----------|-----|--|--|---------------------------|
| Project | No.: | | | | 97-237 | Borehole No.: | BH-23 |
| Client: | Client: PWGSC Date Complete | | | | | | September 25, 1997 |
| Locatio | ation: Bell Street Parking Lot Drilling Method: Hollow-Stem Auger/NQ C | | | | | | |
| Ground | | | levation | on: | 99.52 mASD | Drill Supervisor: | K.B.T. |
| DEPTH (mBGS) | BLOWS | CGI (ppm) | PID (ppm) | 907 | STRATIG DESCR | | INSTALLATION |
| -0 - 1 - 2 - 3 - 4 - | 10 8 | 20 | 0.0 | | FILL - black and orange s - no odour LIMESTONE - black and grey sha with frequent mud s - frequent fractures - RQD = 31% - black and grey sha with frequent mud s - frequent fractures - RQD = 66% - black and grey sha with mud seams - fractured - RQD = 73% Borehole terminated | lley limestone seams lley limestone seams | |
| _ - _5 | | | | | | | "NQ" sized cored borehole |

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pomiting .

| | | В | OR | ЕНО | LE | STRATIGRAPHIC | AND INSTRUMEN | ITATION LOG | | | | |
|----------------------------------|---------------------|----------------------|-----------|-----------|------|--------------------------|---|-------------------|--|--|--|--|
| Proje | Project No.: 97-237 | | | | | | Borehole No.: | BH-22 | | | | |
| Clier | nt: | PWGSC | | | | PWGSC Date Completed: Se | | | | | | |
| Loca | ition | : | | 40 | 1 Le | Breton Street | Drilling Method: | Hollow Stem Auger | | | | |
| Grou | ınd : | Surfa | ce E | levation | on: | | Drill Supervisor: | K.B.T. | | | | |
| DEPTH (mBGS) | SAMPLE | BLOWS | CGI (ppm) | PID (ppm) | FOG | STRATIG DESCR | | INSTALLATION | | | | |
| — 0 — | | 5 11 16 50+ | 14 | 0.0 | | | - brown clayey sand with stones overlying black and orange sand | | | | | |
| - 1 - 1 - 2 3 4 4 | | | | | | Borehole terminated | on bedrock @ 0.61 mB | 3GS | | | | |
| — 5 | | | | | | | | ©INTERA | | | | |

| | | E | BOR | EHC | LE | STRATIGRAPHIC A | AND INSTRUMENTA | ATION LOG | |
|---------------------------------|---------------------|-------|-----------|-----------|--------|---|--|------------------------------|--|
| Proj | Project No.: 97-237 | | | | | 97-237 | Borehole No.: BH-23 | | |
| Clie | nt: | | | | F | PWGSC | Date Completed: | September 25, 1997 | |
| Loca | ation | : | | Вє | ell St | reet Parking Lot | Drilling Method: Hollo | w-Stem Auger/NQ Coring | |
| Grou | und | Surfa | | levati | on: | 99.52 mASD | Drill Supervisor: | K.B.T. | |
| DEPTH (mBGS) | SAMPLE | BLOWS | CGI (ppm) | PID (ppm) | DOT | STRATIG DESCR | | INSTALLATION | |
| -0 -1 -2 -3 -4 - | * * * | 10 8 | 20 | 0.0 | | FILL - black and orange s - no odour LIMESTONE - black and grey shawith frequent mud - frequent fractures - RQD = 31% - black and grey shawith frequent mud - frequent fractures - RQD = 66% - black and grey shawith mud seams - fractured - RQD = 73% Borehole terminated | lley limestone seams lley limestone seams | "NQ" sized cored borehole | |
| | | | | | | | | WINTERA | |

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| ВС | OREHOLE | STRATIGRAPHIC | AND INSTRUMEN | TATION LOG |
|---------------------|--------------|---|-------------------|--------------------|
| Project No.: | | 97-237 | Borehole No.: | BH-24 |
| Client: | F | PWGSC | Date Completed: | September 25, 1997 |
| Location: | 401 Le | Breton Street | Drilling Method: | Hollow Stem Auger |
| Ground Surface | e Elevation: | | Drill Supervisor: | K.B.T. |
| (mBGS) SAMPLE BLOWS | CGI (ppm) | STRATIG DESCR | | INSTALLATION |
| 9 | 0 0.0 | FILL - black and brown s no odour - brown clayey sand silty clay with stone - no odour, no staini Borehole terminated | overlying grey | GS INTERA |

Appendix B - Original Laboratory Data Sheets

Order #C1495

Certificate of Analysis

Intera Consultants Ltd.

265 Carling Avenue, suite 208 Ottawa, Ontario K1S 2E1

Attn: Ms. Krista Trounce

Voice: 613-232-2525

Fax: 613-232-7149

Clients Ref:

Project: **97-237**

Reference:

Report Date: 10/07/97

Order Date: 09/30/97 Sample Date: 09/29/97

This Certificate of Analysis contains analytical data for the following samples:

| Client ID |
|-----------|
| BH-25 |
| BH-23 |
| BH-21 |
| BH-17 |
| BH-16 |
| BH-1 |
| BH-31 |
| BH-8 |
| BH-26 |
| |

Approved By: 2 12650-76. ___ Dale Robertson, B.Sc.

Any use of these test results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work and that our employees or agents shall not under any circumstance be liable to you in connection with this work.

Certificate of Analysis

Date: 10/08/97

Order # C1495

Client: Intera Consultants Ltd.

Client Ref:

Project: 97-237

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.

- Run ID can be used to relate sample data to QC data when more than one QC run is included.

| Train is dan se deed to relate sair | | Sample ID: BH-25 | | | | |
|-------------------------------------|----------|------------------|---------|------------------------|--------|--|
| Paracel ID: C1495.1 | | | Date Sa | Date Sampled: 09/29/97 | | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| Bromodichloromethane | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| Bromoform | JB15AA | mg/L | 0.0008 | 0.0008 | nd | |
| Bromomethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| Carbon Tetrachloride | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| Chlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| Chloroethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| Chloroform | JB15AA | mg/L | 0.0006 | 0.0006 | nd | |
| Chloromethane | JB15AA | mg/L | 0.0030 | 0.0030 | nd | |
| Dibromochloromethane | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| 1,2-Dibromoethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| m-Dichlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| o-Dichlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| p-Dichlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| 1,1-Dichloroethane | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| 1,2-Dichloroethane | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| 1,1-Dichloroethylene | JB15AA | mg/L | 0.0006 | 0.0006 | nd | |
| c-1,2-Dichloroethylene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| t-1,2-Dichloroethylene | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| 1,2-Dichloropropane | JB15AA | mg/L | 0.0007 | 0.0007 | nd | |
| c-1,3-Dichloropropene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| t-1,3-Dichloropropene | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| Ethylbenzene | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| Methylene Chloride | JB15AA | mg/L | 0.0040 | 0.0040 | nd | |
| Styrene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| 1,1,2,2-Tetrachloroethane | JB15AA | mg/L | 0.0006 | 0.0006 | nd | |
| Tetrachloroethylene | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| 1,1,1-Trichloroethane | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| 1,1,2-Trichloroethane | JB15AA | mg/L | 0.0006 | 0.0006 | nd | |
| Trichloroethylene | JB15AA | mg/L | 0.0004 | 0.0004 | nd | |
| Trichlorofluoromethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| 1,3,5-Trimethylbenzene | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| Vinyl Chloride | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| m/p-Xylene | JB15AA | mg/L | 0.0010 | 0.0010 | nd | |
| o-Xylene | JB15AA | mg/L | 0.0005 | 0.0005 | nd | |
| 1,4-Bromofluorobenzene | JB15AA | Surrogate | n/a | n/a | 104% | |
| Dibromofluoromethane | JB15AA | Surrogate | n/a | n/a | 91% | |
| Toluene-d8 | JB15AA | Surrogate | n/a | n/a | 92% | |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd | |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | 0.20 | |

Order #C1495

Certificate of Analysis

Intera Consultants Ltd.

265 Carling Avenue, suite 208 Ottawa, Ontario K1S 2E1

Attn: Ms. Krista Trounce

Clients Ref:

Project: **97-237**

Reference:

Voice: 613-232-2525

Fax: 613-232-7149

Report Date: 10/07/97

Order Date: **09/30/97** Sample Date: **09/29/97**

This Certificate of Analysis contains analytical data for the following samples:

| Client ID |
|-----------|
| BH-25 |
| BH-23 |
| BH-21 |
| BH-17 |
| BH-16 |
| BH-1 |
| BH-31 |
| BH-8 |
| BH-26 |
| |

Approved By: Dale Robertson, B.Sc.

Any use of these test results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work and that our employees or agents shall not under any circumstance be liable to you in connection with this work.

Certificate of Analysis

Date: 10/08/97

Order # C1495

Client: Intera Consultants Ltd.

Client Ref:

Project: 97-237

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.

- Run ID can be used to relate sample data to QC data when more than one QC run is included.

| | Sampl | e ID: BH-2 | Matrix: Water | | |
|-----------------------------------|----------|------------|------------------------|--------|--------|
| Paracel ID: C1495.1 | | | Date Sampled: 09/29/97 | | |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| Bromodichloromethane | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| Bromoform | JB15AA | mg/L | 0.0008 | 0.0008 | nd |
| Bromomethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| Carbon Tetrachloride | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| Chlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| Chloroethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| Chloroform | JB15AA | mg/L | 0.0006 | 0.0006 | nd |
| Chloromethane | JB15AA | mg/L | 0.0030 | 0.0030 | nd |
| Dibromochloromethane | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| 1,2-Dibromoethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| m-Dichlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| o-Dichlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| p-Dichlorobenzene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| 1,1-Dichloroethane | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| 1,2-Dichloroethane | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| 1,1-Dichloroethylene | JB15AA | mg/L | 0.0006 | 0.0006 | nd |
| c-1,2-Dichloroethylene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| t-1,2-Dichloroethylene | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| 1,2-Dichloropropane | JB15AA | mg/L | 0.0007 | 0.0007 | nd |
| c-1,3-Dichloropropene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| t-1,3-Dichloropropene | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| Ethylbenzene | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| Methylene Chloride | JB15AA | mg/L | 0.0040 | 0.0040 | nd |
| Styrene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| 1,1,2,2-Tetrachloroethane | JB15AA | mg/L | 0.0006 | 0.0006 | nd |
| Tetrachloroethylene | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| Toluene | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| 1,1,1-Trichloroethane | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| 1,1,2-Trichloroethane | JB15AA | mg/L | 0.0006 | 0.0006 | nd |
| Trichloroethylene | JB15AA | mg/L | 0.0004 | 0.0004 | nd |
| Trichlorofluoromethane | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| 1,3,5-Trimethylbenzene | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| Vinyl Chloride | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| m/p-Xylene | JB15AA | mg/L | 0.0010 | 0.0010 | nd |
| o-Xylene | JB15AA | mg/L | 0.0005 | 0.0005 | nd |
| 1,4-Bromofluorobenzene | JB15AA | Surrogate | n/a | n/a | 104% |
| Dibromofluoromethane | JB15AA | Surrogate | n/a | n/a | 91% |
| Toluene-d8 | JB15AA | Surrogate | n/a | n/a | 92% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | 0.20 |

Certificate of Analysis

Date: 10/07/97 Order # C1495

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-17 Continued | Run ID | units | DL | PQL | Result |
|---------------------------------|----------|-------|------|------|--------|
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd |

| Sample ID: BH-16 Matrix: Water | | | | | | |
|-----------------------------------|----------|-----------|--------|----------|-----------------|--|
| Paracel ID: C1495.5 | - | | | Date San | npled: 09/29/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 92% | |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd | |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd | |
| Acenaphthene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Acenaphthylene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Anthracene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Benzo[a]anthracene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Benzo[a]pyrene | JK07PA | ug/L | 0.010 | 0.010 | nd | |
| Benzo[b+k]fluoranthene | JK07PA | ug/L | 0.20 | 0.20 | nd | |
| Benzo[ghi]perylene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Biphenyl | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Chrysene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Dibenzo[a,h]anthracene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Fluoranthene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Fluorene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Indeno[1,2,3-cd]pyrene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| 1-Methylnaphthalene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| 2-Methylnaphthalene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Naphthalene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Phenanthrene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| Pyrene | JK07PA | ug/L | 0.10 | 0.10 | nd | |
| 2-Fluorobiphenyl | JK07PA | Surrogate | n/a | n/a | 72% | |
| p-Terphenyl d-14 | JK07PA | Surrogate | n/a | n/a | 78% | |

| 233333 | Sample | e ID: BH- | 1 | | Matrix: Water | |
|---------------------|--------|-----------|--------|------------------------|---------------|--|
| Paracel ID: C1495.6 | • | | | Date Sampled: 09/29/97 | | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |

Certificate of Analysis

Date: 10/07/97 Order # C1495

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-1 Continued | Run ID | units | DL | PQL | Result |
|-----------------------------------|----------|-----------|------|------|--------|
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 90% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.14 | nd |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.14 | nd |

| | Sample | Sample ID: BH-31 | | | Matrix: Water | |
|-----------------------------------|----------|------------------|--------|----------|-----------------|--|
| Paracel ID: C1495.7 | - | | | Date San | npled: 09/29/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 92% | |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd | |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd | |

| | Sampl | e ID: BH-8 | 3 | | Matrix: Water | |
|-----------------------------------|----------|------------|--------|----------|-----------------|--|
| Paracel ID: C1495.8 | | | | Date San | npled: 09/29/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 93% | |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd | |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd | |

| | Sample ID: BH-26 | | | | Matrix: Water |
|-----------------------------------|------------------|-----------|--------|-----------|----------------|
| Paracel ID: C1495.9 | | | | Date Samı | oled: 09/29/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 91% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd |

Certificate of Analysis

Date: 10/07/97 Order # C1495

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-17 Continued | Run ID | units | DL | PQL | Result |
|---------------------------------|----------|-------|------|------|--------|
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd |

| | Sample ID: BH-16 Matrix: Water | | | | |
|-----------------------------------|--------------------------------|-----------|--------|----------|-----------------|
| Paracel ID: C1495.5 | | | | Date Sar | npled: 09/29/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 92% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd |
| Acenaphthene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Acenaphthylene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Anthracene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Benzo[a]anthracene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Benzo[a]pyrene | JK07PA | ug/L | 0.010 | 0.010 | nd |
| Benzo[b+k]fluoranthene | JK07PA | ug/L | 0.20 | 0.20 | nd |
| Benzo[ghi]perylene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Biphenyl | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Chrysene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Dibenzo[a,h]anthracene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Fluoranthene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Fluorene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Indeno[1,2,3-cd]pyrene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| 1-Methylnaphthalene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| 2-Methylnaphthalene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Naphthalene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Phenanthrene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| Pyrene | JK07PA | ug/L | 0.10 | 0.10 | nd |
| 2-Fluorobiphenyl | JK07PA | Surrogate | n/a | n/a | 72% |
| p-Terphenyl d-14 | JK07PA | Surrogate | n/a | n/a | 78% |

| | Sample | e ID: BH- | 1 | Matrix: Wat | | |
|---------------------|----------|-----------|------------------------|-------------|--------|--|
| Paracel ID: C1495.6 | <u>-</u> | | Date Sampled: 09/29/97 | | | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | |

Certificate of Analysis

Date: 10/07/97

Order # C1495

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-1 Continued | Run ID | units | DL | PQL | Result |
|-----------------------------------|----------|-----------|------|------|--------|
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 90% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.14 | nd |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.14 | nd |

| Paracel ID: C1495,7 | Sample | e ID: BH-3 | 5.4.0 | Matrix: Water | | | |
|-----------------------------------|----------|-----------------|--------|---------------|-----------------------------------|--|--|
| Parameter | Run ID | Run ID units DL | | | Date Sampled: 09/29/97 PQL Result | | |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | Result nd | | |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | | |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | | |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd | | |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd | | |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 92% | | |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd | | |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd | | |

| | Sampl | e ID: BH-8 | 3 | | Matrix: Water |
|-----------------------------------|----------|------------|--------|----------|-----------------|
| Paracel ID: C1495.8 | | | | Date San | npled: 09/29/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 93% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd |
| Petroleum Hydrocarbons (diesel) | B0000254 | mg/L | 0.10 | 0.10 | nd |

| | Sample ID: BH-26 | | | | Matrix: Water |
|-----------------------------------|------------------|-----------|--------|----------|-----------------|
| Paracel ID: C1495.9 | - | | | Date San | npled: 09/29/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Ethylbenzene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| m/p-Xylene | JB15BB | mg/L | 0.0010 | 0.0010 | nd |
| o-Xylene | JB15BB | mg/L | 0.0005 | 0.0005 | nd |
| Toluene-d8 | JB15BB | Surrogate | n/a | n/a | 91% |
| Petroleum Hydrocarbons (gasoline) | B0000254 | mg/L | 0.10 | 0.10 | nd |

QA/QC Report - MATRIX BLANK

| Run ID JB15AA Continued | units | DL | Measured |
|-------------------------|-----------|-----|----------|
| 1,4-Bromofluorobenzene | Surrogate | n/a | 105% |
| Dibromofluoromethane | Surrogate | n/a | 90% |
| Toluene-d8 | Surrogate | n/a | 90% |

| Method: US EPA 624 | | | |
|--------------------|-----------|--------|---------------|
| Run ID: JB15BB | | | Matrix: Water |
| Parameter | units | DL | Measured |
| Benzene | mg/L | 0.0005 | nd |
| Ethylbenzene | mg/L | 0.0005 | nd |
| Toluene | mg/L | 0.0010 | nd |
| m/p-Xylene | mg/L | 0.0010 | nd |
| o-Xylene | mg/L | 0.0005 | nd |
| Toluene-d8 | Surrogate | n/a | 90% |

| Method:US EPA 625 | | | |
|------------------------|-----------|-------|---------------|
| Run ID: JK07PA | | | Matrix: Water |
| Parameter | units | DL | Measured |
| Acenaphthene | ug/L | 0.10 | nd |
| Acenaphthylene | ug/L | 0.10 | nd |
| Anthracene | ug/L | 0.10 | nd |
| Benzo[a]anthracene | ug/L | 0.10 | nd |
| Benzo[a]pyrene | ug/L | 0.010 | nd |
| Benzo[b+k]fluoranthene | ug/L | 0.20 | nd |
| Benzo[ghi]perylene | ug/L | 0.10 | nd |
| Chrysene | ug/L | 0.10 | nd |
| Dibenzo[a,h]anthracene | ug/L | 0.10 | nd |
| Fluoranthene | ug/L | 0.10 | nd |
| Fluorene | ug/L | 0.10 | nd |
| Indeno[1,2,3-cd]pyrene | ug/L | 0.10 | nd |
| Naphthalene | ug/L | 0.10 | nd |
| Phenanthrene | ug/L | 0.10 | nd |
| Pyrene | ug/L | 0.10 | nd |
| 2-Fluorobiphenyl | Surrogate | n/a | 84% |
| p-Terphenyl d-14 | Surrogate | n/a | 86% |

QA/QC Report - REFERENCE STANDARD

Note - The following portion of this report includes Reference Standard data relating to all of the samples included in the Certificate of Analysis.

- More that one Reference Standard for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Reference Standard to particular samples.

| Method SW-846 Method 8000A/3500A | | | • | |
|-----------------------------------|----------|-----|------|---------------|
| Run ID: B0000254 | | | | Matrix: Water |
| Parameter | Expected | LLA | ULA | Recovery |
| Petroleum Hydrocarbons (gasoline) | 100 mg/L | 50% | 150% | 121% |
| Petroleum Hydrocarbons (diesel) | 300 mg/L | 50% | 150% | 84% |

Reference - 1

QA/QC Report - MATRIX BLANK

| Run ID JB15AA Continued | units | DL | Measured |
|-------------------------|-----------|-----|----------|
| 1,4-Bromofluorobenzene | Surrogate | n/a | 105% |
| Dibromofluoromethane | Surrogate | n/a | 90% |
| Toluene-d8 | Surrogate | n/a | 90% |

| Method: US EPA 624 | | | |
|--------------------|-----------|--------|---------------|
| Run ID: JB15BB | • | | Matrix: Water |
| Parameter | units | DL | Measured |
| Benzene | mg/L | 0.0005 | nd |
| Ethylbenzene | mg/L | 0.0005 | nd |
| Toluene | mg/L | 0.0010 | nd |
| m/p-Xylene | mg/L | 0.0010 | nd |
| o-Xylene | mg/L | 0.0005 | nd |
| Toluene-d8 | Surrogate | n/a | 90% |

| Method:US EPA 625 | | | |
|------------------------|-----------|-------|---------------|
| Run ID: JK07PA | | | Matrix: Water |
| Parameter | units | DL | Measured |
| Acenaphthene | ug/L | 0.10 | nd |
| Acenaphthylene | ug/L | 0.10 | nd |
| Anthracene | ug/L | 0.10 | nd |
| Benzo[a]anthracene | ug/L | 0.10 | nd |
| Benzo[a]pyrene | ug/L | 0.010 | nd |
| Benzo[b+k]fluoranthene | ug/L | 0.20 | nd |
| Benzo[ghi]perylene | ug/L | 0.10 | nd |
| Chrysene | ug/L | 0.10 | nd |
| Dibenzo[a,h]anthracene | ug/L | 0.10 | nd |
| Fluoranthene | ug/L | 0.10 | nd |
| Fluorene | ug/L | 0.10 | nd |
| Indeno[1,2,3-cd]pyrene | ug/L | 0.10 | nd |
| Naphthalene | ug/L | 0.10 | nd |
| Phenanthrene | ug/L | 0.10 | nd |
| Pyrene | ug/L | 0.10 | nd |
| 2-Fluorobiphenyl | Surrogate | n/a | 84% |
| p-Terphenyl d-14 | Surrogate | n/a | 86% |

QA/QC Report - REFERENCE STANDARD

Note - The following portion of this report includes Reference Standard data relating to all of the samples included in the Certificate of Analysis.

- More that one Reference Standard for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Reference Standard to particular samples.

| Method SW-846 Method 8000A/3500A | | | | |
|-----------------------------------|----------|-----|------|---------------|
| Run ID: B0000254 | | | | Matrix: Water |
| Parameter | Expected | LLA | ULA | Recovery |
| Petroleum Hydrocarbons (gasoline) | 100 mg/L | 50% | 150% | 121% |
| Petroleum Hydrocarbons (diesel) | 300 mg/L | 50% | 150% | 84% |

Reference - 1

QA/QC Report - MATRIX DUPLICATE

Note - The following portion of this report includes Matrix Duplicate data relating to all of the samples included in the Certificate of Analysis.

- More that one Matrix Duplicate for a parameter parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Duplicate to particular samples.

| Method: US EPA 624 Run ID: JB15BB | | ASSESSED TO THE PROPERTY OF TH | N.P.Y. | Matrix: Water |
|--------------------------------------|-----------|--|-------------------|--------------------|
| Parameter | units | Detection Limit | Reported Value | Duplicate Value |
| Benzene | mg/L | 0.0005 | nd | nd |
| Ethylbenzene | mg/L | 0.0005 | nd | nd |
| Toluene | mg/L | 0.0010 | nd | nd |
| m/p-Xylene | mg/L | 0.0010 | nd | nd |
| o-Xylene | mg/L | 0.0005 | nd | nd |
| Toluene-d8 | Surrogate | | 93% | 94% |

Date: 10/07/97

QA/QC Report - MATRIX SPIKE

Note - The following portion of this report includes Matirx Spike data relating to all of the samples included in the Certificate of Analysis.

- More that one Matrix Spike for a parameter usually indicates that the samples were analyzed under more

| | . The Run ID can be used to relate a Matrix Sp | • |
|---------------------|---|---|
| that and ()(' arour | The Dun ID combana all colletes 14 () 🔿 | • |
| THAT OHE CALOUSIE | I THE RUID II I CAN NO HEAR TO POINTE A MATRIX CH | IVA ta naticular commics |
| mat one ato group | | ike io panicinal sambies |
| | | |

| Parameter | Expected | Measured | LLA | ULA | Matrix: Water Meas./Expt. |
|---------------------------|------------|----------|-----|------|---------------------------|
| Benzene | 0.040 mg/L | 0.034 | 61 | 135 | 85% |
| Bromodichloromethane | 0.040 mg/L | 0.027 | 48 | 164 | 68% |
| Bromoform | 0.040 mg/L | 0.022 | 3.0 | 182 | 54% |
| Bromomethane | 0.040 mg/L | 0.031 | 8.0 | 200 | 78% |
| Carbon Tetrachloride | 0.040 mg/L | 0.035 | 19 | 155 | 87% |
| Chlorobenzene | 0.040 mg/L | 0.039 | 61 | 139 | 98% |
| Chloroethane | 0.040 mg/L | 0.024 | 50 | 150 | 61% |
| Chloroform | 0.040 mg/L | 0.036 | 52 | 134 | 90% |
| Chloromethane | 0.040 mg/L | 0.035 | 50 | 193 | 88% |
| Dibromochloromethane | 0.040 mg/L | 0.026 | 33 | 175 | 64% |
| 1,2-Dibromoethane | 0.040 mg/L | 0.027 | 33 | 172 | 68% |
| m-Dichlorobenzene | 0.040 mg/L | 0.042 | 63 | 133 | 105% |
| o-Dichlorobenzene | 0.040 mg/L | 0.036 | 55 | 141 | 90% |
| p-Dichlorobenzene | 0.040 mg/L | 0.041 | 64 | 134 | 101% |
| 1,1-Dichloroethane | 0.040 mg/L | 0.035 | 51 | 134 | 89% |
| 1,2-Dichloroethane | 0.040 mg/L | 0.029 | 38 | 164 | 71% |
| 1,1-Dichloroethylene | 0.040 mg/L | 0.031 | 47 | 150 | 78% |
| c-1,2-Dichloroethylene | 0.040 mg/L | 0.033 | 62 | 139 | 83% |
| t-1,2-Dichloroethylene | 0.040 mg/L | 0.040 | 48 | 153 | 101% |
| 1,2-Dichloropropane | 0.040 mg/L | 0.028 | 45 | 155 | 70% |
| c-1,3-Dichloropropene | 0.040 mg/L | 0.024 | 27 | 178 | 59% |
| t-1,3-Dichloropropene | 0.040 mg/L | 0.023 | 40 | 167 | 59% |
| Ethylbenzene | 0.040 mg/L | 0.042 | 58 | 147 | 105% |
| Methylene Chloride | 0.040 mg/L | 0.034 | 66 | 150 | 85% |
| Styrene | 0.040 mg/L | 0.042 | 48 | 146 | 104% |
| 1,1,2,2-Tetrachloroethane | 0.040 mg/L | 0.022 | 24 | 171 | 55% |
| Tetrachloroethylene | 0.040 mg/L | 0.045 | 33 | 153 | 112% |
| Toluene | 0.040 mg/L | 0.035 | 55 | 148 | 87% |
| 1,1,1-Trichloroethane | 0.040 mg/L | 0.036 | 44 | 133 | 91% |
| 1,1,2-Trichloroethane | 0.040 mg/L | 0.023 | 38 | 163 | 58% |
| Trichloroethylene | 0.040 mg/L | 0.036 | 55 | 152 | 90% |
| Trichlorofluoromethane | 0.040 mg/L | 0.048 | 60 | 163 | 119% |
| 1,3,5-Trimethylbenzene | 0.040 mg/L | 0.044 | 57 | 135 | 110% |
| Vinyl Chloride | 0.040 mg/L | 0.039 | 51 | 168 | 97% |
| m/p-Xylene | 0.080 mg/L | 0.098 | 45 | 168 | 123% |
| o-Xylene | 0.040 mg/L | 0.046 | 28 | 183 | 115% |
| 1,4-Bromofluorobenzene | Surrogate | | 69% | 132% | 101% |
| Dibromofluoromethane | Surrogate | | 68% | 129% | 91% |
| Toluene-d8 | Surrogate | | 88% | 112% | 103% |

Paracel Laboratories Ltd. QA/QC Report - MATRIX SPIKE

| Method: US EPA 624 | | | | | |
|--------------------|------------|----------|-----|------|---------------|
| Run ID: JB15BB | | | | | Matrix: Water |
| Parameter | Expected | Measured | LLA | ULA | Meas./Expt. |
| Benzene | 0.040 mg/L | 0.034 | 61 | 135 | 85% |
| Ethylbenzene | 0.040 mg/L | 0.042 | 58 | 147 | 105% |
| Toluene | 0.040 mg/L | 0.035 | 55 | 148 | 87% |
| m/p-Xylene | 0.080 mg/L | 0.098 | 45 | 168 | 123% |
| o-Xylene | 0.040 mg/L | 0.046 | 28 | 183 | 115% |
| Toluene-d8 | Surrogate | | 88% | 112% | 103% |

| Method: US EPA 625 | | | | | |
|------------------------|-----------|----------|-----|------|---------------|
| Run ID: JK07PA | | | | | Matrix: Water |
| Parameter | Expected | Measured | LLA | ULA | Meas./Expt. |
| Acenaphthene | 10 ug/L | 8.6 | 47 | 147 | 86% |
| Acenaphthylene | 10 ug/L | 7.7 | 33 | 145 | 77% |
| Anthracene | 10 ug/L | 6.3 | 27 | 133 | 63% |
| Benzo[a]anthracene | 10 ug/L | 8.3 | 33 | 143 | 83% |
| Benzo[a]pyrene | 10 ug/L | 8.5 | 17 | 163 | 85% |
| Benzo[b+k]fluoranthene | 20 ug/L | 7.6 | 11 | 162 | 38% |
| Benzo[ghi]perylene | 10 ug/L | 6.5 | 1.0 | 219 | 65% |
| Chrysene | 10 ug/L | 7.3 | 17 | 168 | 73% |
| Dibenzo[a,h]anthracene | 10 ug/L | 5.8 | 1.0 | 227 | 58% |
| Fluoranthene | 10 ug/L | 7.2 | 26 | 137 | 72% |
| Fluorene | 10 ug/L | 7.9 | 59 | 121 | 79% |
| Indeno[1,2,3-cd]pyrene | 10 ug/L | 6.3 | 1.0 | 171 | 63% |
| Naphthalene | 10 ug/L | 6.4 | 21 | 133 | 64% |
| Phenanthrene | 10 ug/L | 8.0 | 54 | 120 | 80% |
| Pyrene | 10 ug/L | 7.0 | 52 | 115 | 70% |
| 2-Fluorobiphenyl | Surrogate | | 30% | 115% | 88% |
| p-Terphenyl d-14 | Surrogate | | 18% | 137% | 87% |

Glossary of Terms

DL The laboratory Detection Limit. The value is based on instrument response and is the lowest level

that can be quantitated with confidence

PQL The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could

be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte

Date:

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concentration, matrix interferences, available sample volume, or other factors.

nd Not detected or found below the detection limit.

n/a Not applicable to this particular analysis.

,

Surrogate Surrogates are 'not naturally occuring' compounds which are added to the sample prior to analysis in order to monitor method performance. The results of the surrogate recoveries are reported in

percent.

Blank The results from the analysis of a matrix blank in the same run.

Duplicate The results from an intralaboratory split sample that has been processed identically to that of the primary sample. Result for split sample are listed together with the results from the primary

sample.

Reference Standard is a standard that Standard Contains the parameters of interest and is procured from a source secondary to the Calibration

standard.

EXPECTED: The actual concentration of the analyte in the Reference Standard.

Spike Data The results obtained from a sample fortified at a known level. The recovery of the spike is

dependent on the level of the analyte found in the sample and spike.

SAMPLE - Results from the analysis of the unfortified sample.

SPIKE- Results from the analysis of the fortified sample.

RECOVERY - Recovery of the spiked material reported in percent.

LLA Lower Limit of Acceptability for QC recovery data.

ULA Upper Limit of Acceptability for QC recovery data.

Glossary

Paracel Laboratories Ltd. QA/QC Report - MATRIX SPIKE

| Method: US EPA 624 | | | | | |
|--------------------|------------|----------|-----|------|---------------|
| Run ID: JB15BB | | | | | Matrix: Water |
| Parameter | Expected | Measured | LLA | ULA | Meas./Expt. |
| Benzene | 0.040 mg/L | 0.034 | 61 | 135 | 85% |
| Ethylbenzene | 0.040 mg/L | 0.042 | 58 | 147 | 105% |
| Toluene | 0.040 mg/L | 0.035 | 55 | 148 | 87% |
| m/p-Xylene | 0.080 mg/L | 0.098 | 45 | 168 | 123% |
| o-Xylene | 0.040 mg/L | 0.046 | 28 | 183 | 115% |
| Toluene-d8 | Surrogate | | 88% | 112% | 103% |

| Method: US EPA 625 | | | | | |
|------------------------|-----------|----------|-----|------|---------------|
| Run ID: JK07PA | | | | | Matrix: Water |
| Parameter | Expected | Measured | LLA | ULA | Meas./Expt. |
| Acenaphthene | 10 ug/L | 8.6 | 47 | 147 | 86% |
| Acenaphthylene | 10 ug/L | 7.7 | 33 | 145 | 77% |
| Anthracene | 10 ug/L | 6.3 | 27 | 133 | 63% |
| Benzo[a]anthracene | 10 ug/L | 8.3 | 33 | 143 | 83% |
| Benzo[a]pyrene | 10 ug/L | 8.5 | 17 | 163 | 85% |
| Benzo[b+k]fluoranthene | 20 ug/L | 7.6 | 11 | 162 | 38% |
| Benzo[ghi]perylene | 10 ug/L | 6.5 | 1.0 | 219 | 65% |
| Chrysene | 10 ug/L | 7.3 | 17 | 168 | 73% |
| Dibenzo[a,h]anthracene | 10 ug/L | 5.8 | 1.0 | 227 | 58% |
| Fluoranthene | 10 ug/L | 7.2 | 26 | 137 | 72% |
| Fluorene | 10 ug/L | 7.9 | 59 | 121 | 79% |
| Indeno[1,2,3-cd]pyrene | 10 ug/L | 6.3 | 1.0 | 171 | 63% |
| Naphthalene | 10 ug/L | 6.4 | 21 | 133 | 64% |
| Phenanthrene | 10 ug/L | 8.0 | 54 | 120 | 80% |
| Pyrene | 10 ug/L | 7.0 | 52 | 115 | 70% |
| 2-Fluorobiphenyl | Surrogate | | 30% | 115% | 88% |
| p-Terphenyl d-14 | Surrogate | | 18% | 137% | 87% |

Glossary of Terms

DL The laboratory Detection Limit. The value is based on instrument response and is the lowest level

that can be quantitated with confidence

PQL The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could

be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte

Date:

10/07/97

concentration, matrix interferences, available sample volume, or other factors.

Not detected or found below the detection limit. nd

n/a Not applicable to this particular analysis.

Surrogate

Surrogates are 'not naturally occuring' compounds which are added to the sample prior to analysis Data in order to monitor method performance. The results of the surrogate recoveries are reported in

percent.

Blank The results from the analysis of a matrix blank in the same run.

Duplicate The results from an intralaboratory split sample that has been processed identically to that of the primary sample. Result for split sample are listed together with the results from the primary Data

sample.

Reference Results from the analysis of a Reference Standard. A Reference Standard is a standard that Standard contains the parameters of interest and is procured from a source secondary to the Calibration

standard.

EXPECTED: The actual concentration of the analyte in the Reference Standard.

The results obtained from a sample fortified at a known level. The recovery of the spike is Spike Data

dependent on the level of the analyte found in the sample and spike. SAMPLE - Results from the analysis of the unfortified sample.

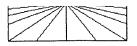
SPIKE- Results from the analysis of the fortified sample.

RECOVERY - Recovery of the spiked material reported in percent.

LLA Lower Limit of Acceptability for QC recovery data.

ULA Upper Limit of Acceptability for QC recovery data.

Glossary



PARACEL LABORATORIES LTD.

2319 St. Laurent Blvd., Unit 100, Ottawa, ON, Canada K1G 4K6

Tel: (613) 731-9577 Fax: (613) 731-9064

Nº P 2821

CHAIN OF CUSTODY REPORT

| | NT INFORMATION | | 0 | | | / | | | | | | | | | | | |
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| PHONE | NUMBER: 613-232 | - 25 | 25 | | | | | | FA | X: | | 0/3 - | 232 | <u></u> _ | 714 | <u>q</u> _ | |
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| 2 | BH-23 | 4 | | 1 | MON | | X | X | | | | | 1 | T | | | |
| 3 | BH-21 | 12 | W | 4 | X | メ | | | | | | | | | | | |
| 4 | BH-17 | 2 | W | 4 | X | X | | | | | | | | | | , | |
| 5 | BH-16 | 3 | w | 4 | X | × | × | | | | | | | | | | |
| 6 | BH - 1 | 2 | W | ٠, | k | X | | | | | | | | | | | |
| 7 | BH-31 | 2 | W | ۲, | b | X | | | | | | | | | | | |
| 8 | BH-8 | 2 | W | 1. | X | X | | | | | | | | | | | |
| 9 | BH-26 | 2 | W | ١, | V | X | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| | Preservation done in field (Y/N) | | | | | | | | | | | | | | | | |
| anir | Preservative to be added by Para | cel (Y/N |): | | | | | | | | | | | | | | |
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Order #C1664

Certificate of Analysis

Intera Consultants Ltd.

265 Carling Avenue, suite 208 Ottawa, Ontario K1S 2E1

Voice: 613-232-2525 Fax: 613-232-7149

Attn: Mr. Anthony West

Clients Ref:

Report Date: 10/23/97 Order Date: 10/22/97

Project: **97-237** Reference:

Sample Date: 09/26/97

This Certificate of Analysis contains analytical data for the following samples:

| Paracel ID | Client ID |
|------------|--------------|
| C1664.1 | BH-24 .5-2.5 |
| C1664.2 | BH-20 .5-2.5 |
| C1664.3 | BH-13 .5-2.5 |
| C1664.4 | BH-5 .5-2.5 |
| C1664.5 | BH-12 .5-2.5 |
| C1664.6 | BH-14 .5-2.5 |
| C1664.7 | BH-21 .5-2.5 |

Approved By: ______ Dale Robertson, B.Sc.

Certificate of Analysis

Date: 10/23/97

Order # C1664

Client: Intera Consultants Ltd.

Client Ref: Project: 97-237

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.

- Run ID can be used to relate sample data to QC data when more than one QC run is included.

| | Sample ID | : BH-24. | | Matrix: Soil | | |
|---------------------|-----------|----------|------|--------------|----------------|--|
| Paracel ID: C1664.1 | • | | | Date Sam | oled: 09/26/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 4,200 | |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd | |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd | |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 59 | |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | 0.20 | |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd | |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd | |
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 110,000 | |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 9.0 | |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 5.0 | |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 14 | |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 16,000 | |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 110 | |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd | |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 27,000 | |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 260 | |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 4.0 | |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 10 | |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd | |
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | 1,000 | |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd | |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 400 | |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 120 | |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd | |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 120 | |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | nd | |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 10 | |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 2.0 | |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 70 | |

| | Sample ID: | Matrix: Soil | | | |
|---------------------|------------|--------------|------|-----------|---------------|
| Paracel ID: C1664.2 | | | | Date Samp | led: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 4,800 |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | 10 |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 200 |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | 0.60 |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |

Certificate of Analysis

Date: 10/23/97

Order # C1664

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-20 .5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|----------|-------|------|------|--------|
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 49,000 |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 12 |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 6.0 |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 26 |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 25,000 |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 65 |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 4,600 |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 200 |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 14 |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 11 |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | nd |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 400 |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 110 |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 280 |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 14 |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 3.0 |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 83 |

| | Sample ID | : BH-13 . | 5-2.5 | | Matrix: Soil |
|---------------------|-----------|-----------|-------|----------|----------------|
| Paracel ID: C1664.3 | - | | | Date Sam | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 4,000 |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 100 |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | nd |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 150,000 |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 10 |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 3.0 |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 9.0 |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 9,300 |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 36 |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 6,000 |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 220 |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 8.0 |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |

Certificate of Analysis

Date: 10/23/97

Order # C1664

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-13 .5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|----------|-------|------|------|--------|
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | 500 |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 400 |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 240 |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 310 |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 13 |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 3.0 |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 23 |

| | Sample ID |): BH-5 .5 | 5-2.5 | | Matrix: Soil |
|---------------------|-----------|------------|-------|-----------|----------------|
| Paracel ID: C1664.4 | • | | | Date Samp | oled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 6,200 |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | 5.0 |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | 5.0 |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 88 |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | 0.40 |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nď |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nď |
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 59,000 |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 25 |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 4.0 |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 17 |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 16,000 |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 110 |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 7,700 |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 240 |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 13 |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 13 |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | 1,000 |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 600 |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 110 |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 380 |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 18 |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 5.0 |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 70 |

Certificate of Analysis

Date: 10/23/97 Order # C1664

Client: Intera Consultants Ltd.

Client Ref:

| | Sample ID: | : BH-12 . | 5-2.5 | | Matrix: Soil |
|---------------------|------------|-----------|-------|-----------|----------------|
| Paracel ID: C1664.5 | • | | | Date Samp | oled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 5,900 |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 190 |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | 0.20 |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 190,000 |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 12 |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 6.0 |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 14 |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 11,000 |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 35 |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 10,000 |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 290 |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 10 |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | 1,500 |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 700 |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 360 |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 130 |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | 20 |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 11 |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 5.0 |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 38 |

| | Sample ID: | BH-14 .5 | 5-2.5 | | Matrix: Soil |
|---------------------|------------|----------|-------|-----------|---------------|
| Paracel ID: C1664.6 | • | | | Date Samp | led: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 4,800 |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 110 |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | nd |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |

Certificate of Analysis

Date: 10/23/97

Order # C1664

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-14 .5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|----------|-------|------|------|---------|
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 250,000 |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 9.0 |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 6.0 |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 20 |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 9,400 |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 34 |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 5,900 |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 210 |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 8.0 |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | nd |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 500 |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 340 |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 160 |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | 20 |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 28 |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 15 |

| | Sample ID | : BH-21 . | 5-2.5 | | Matrix: Soil |
|---------------------|-----------|-----------|-------|----------|-----------------|
| Paracel ID: C1664.7 | • | | | Date San | npled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BICSG029 | ug/g | 100 | 100 | 10,000 |
| Antimony (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Arsenic (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | 5.0 |
| Barium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 500 |
| Beryllium (ICP) | BICSG029 | ug/g | 0.20 | 0.20 | 0.60 |
| Bismuth (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |
| Cadmium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Calcium (ICP) | BICSG029 | ug/g | 100 | 100 | 68,000 |
| Chromium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 12 |
| Cobalt (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 4.0 |
| Copper (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 16 |
| Iron (ICP) | BICSG029 | ug/g | 100 | 100 | 27,000 |
| Lead (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 100 |
| Lithium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | nd |
| Magnesium (ICP) | BICSG029 | ug/g | 100 | 100 | 7,000 |
| Manganese (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 200 |
| Molybdenum (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 12 |
| Nickel (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 13 |
| Niobium (ICP) | BICSG029 | ug/g | 5.0 | 5.0 | nd |

Certificate of Analysis

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Order # C1664

Client: Intera Consultants Ltd.

Client Ref:

| Sample: BH-21 .5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|----------|-------|------|------|--------|
| Potassium (ICP) | BICSG029 | ug/g | 500 | 500 | nd |
| Silver (ICP) | BICSG029 | ug/g | 0.50 | 0.50 | nd |
| Sodium (ICP) | BICSG029 | ug/g | 100 | 100 | 600 |
| Strontium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 290 |
| Tin (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Titanium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 400 |
| Tungsten (ICP) | BICSG029 | ug/g | 20 | 20 | nd |
| Vanadium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 18 |
| Yttrium (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 3.0 |
| Zinc (ICP) | BICSG029 | ug/g | 1.0 | 1.0 | 70 |

Glossary of Terms

DL The laboratory Detection Limit. The value is based on instrument response and is the lowest level

that can be quantitated with confidence

PQL The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could

be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte

Date:

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concentration, matrix interferences, available sample volume, or other factors.

nd Not detected or found below the detection limit.

n/a Not applicable to this particular analysis.

Surrogate Surrogates are 'not naturally occuring' compounds which are added to the sample prior to analysis in order to monitor method performance. The results of the surrogate recoveries are reported in

percent.

Blank The results from the analysis of a matrix blank in the same run.

Duplicate
Data
The results from an intralaboratory split sample that has been processed identically to that of the primary sample. Result for split sample are listed together with the results from the primary

sample.

Reference Results from the analysis of a Reference Standard. A Reference Standard is a standard that contains the parameters of interest and is procured from a source secondary to the Calibration

standard.

EXPECTED: The actual concentration of the analyte in the Reference Standard.

dependent on the level of the analyte found in the sample and spike.

SAMPLE - Results from the analysis of the unfortified sample. SPIKE- Results from the analysis of the fortified sample.

RECOVERY - Recovery of the spiked material reported in percent.

LLA Lower Limit of Acceptability for QC recovery data.

ULA Upper Limit of Acceptability for QC recovery data.

Glossary

Order #C1475

Certificate of Analysis

Intera Consultants Ltd.

265 Carling Avenue, suite 208 Ottawa, Ontario K1S 2E1

Attn:

Clients Ref: **97-237**

Project: **97-237** Reference:

Voice: 613-232-2525

Fax: 613-232-7149

Report Date: 10/06/97

Order Date: 09/26/97 Sample Date: 09/26/97

This Certificate of Analysis contains analytical data for the following samples:

| Devecal ID | 011 |
|------------|---------------|
| Paracel ID | Client ID |
| C1475.1 | BH-1 2.5-4.5 |
| C1475.2 | BH-2 0.5-2.5 |
| C1475.3 | BH-3 0.5-2.5 |
| C1475.4 | BH-5 0.5-2.5 |
| C1475.5 | BH-6 0.5-2.5 |
| C1475.6 | BH-8 0-2 |
| C1475.7 | BH-8 2.5-4.5 |
| C1475.8 | BH-9 0.5-2.5 |
| C1475.9 | BH-10 0.5-2.5 |
| C1475.10 | BH-14 0.5-2.5 |
| C1475.11 | BH-15 3.0-5.0 |
| C1475.12 | BH-19 0-2 |
| C1475.13 | BH-21 0.5-2.5 |
| C1475.14 | BH-22 0.5-2.5 |
| C1475.15 | BH-23 0.5-2.5 |
| C1475.16 | BH-25 0.5-2.5 |
| C1475.17 | BH-30 0.5-2.5 |
| C1475.18 | BH-12 0.5-2.5 |
| C1475.19 | BH-4 0.5-2.5 |

Approved By: Dale Robertson, B.Sc.

Any use of these test results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work and that our employees or agents shall not under any circumstance be liable to you in connection with this work.

Certificate of Analysis

Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

Project: 97-237

Note - DL is the lowest detection limit normally attainable by the laboratory and PQL is the lowest practical quantitation limit attainable for the sample. If the PQL is greater than the DL, the PQL levels apply to the sample.

- Run ID can be used to relate sample data to QC data when more than one QC run is included.

| | Sample ID | ple ID: BH-1 2.5-4.5 | | | Matrix: Soil | |
|-----------------------------------|-----------|----------------------|-------|----------|----------------|--|
| Paracel ID: C1475.1 | - | | | Date Sam | pled: 09/26/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| Ethylbenzene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| Toluene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| m/p-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| o-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| Toluene-D8 | IJ26BB | Surrogate | n/a | n/a | 98% | |
| Petroleum Hydrocarbons (gasoline) | A0000249 | ug/g | 10 | 10 | nd | |
| Petroleum Hydrocarbons (diesel) | A0000249 | ug/g | 10 | 10 | nd | |

| | Sample ID | : BH-2 0. | 5-2.5 | | Matrix: Soil |
|---------------------|-----------|-----------|-------|----------|-----------------|
| Paracel ID: C1475.2 | • | | | Date San | npled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 6,500 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 23 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 58,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 9.0 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1.0 |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 11 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 11,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 7.0 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 23,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 550 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 8.0 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 700 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 630 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 65 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 14 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 52 |

| | Sample ID: | Matrix: Soi | | | |
|---------------------|------------|-------------|-----|-----------|---------------|
| Paracel ID: C1475.3 | - | | | Date Samp | led: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 18,000 |

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Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-3 0.5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|----------|-------|------|------|--------|
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 130 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 60,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 26 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 3.0 |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 16 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 18,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 43 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 11,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 390 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 17 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 2,300 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 1,500 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 100 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 27 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 72 |

| Sample ID: BH-5 0.5-2.5 | | | | | | |
|-------------------------|--------|-----------|--------|----------|-----------------|--|
| Paracel ID: C1475.4 | • | | | Date San | npled: 09/26/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Acenaphthene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.016 | |
| Acenaphthylene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.013 | |
| Anthracene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.040 | |
| Benzo[a]anthracene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.10 | |
| Benzo[a]pyrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.16 | |
| Benzo[b+k]fluoranthene | IJ28PA | ug/g | 0.0066 | 0.0066 | 0.22 | |
| Benzo[ghi]perylene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.086 | |
| Biphenyl | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.023 | |
| Chrysene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.14 | |
| Dibenzo[a,h]anthracene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.030 | |
| Fluoranthene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.25 | |
| Fluorene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.013 | |
| Indeno[1,2,3-cd]pyrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.079 | |
| 1-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.16 | |
| 2-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.16 | |
| Naphthalene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.10 | |
| Phenanthrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.25 | |
| Pyrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.21 | |
| 2-Fluorobiphenyl | IJ28PA | Surrogate | n/a | n/a | 77% | |

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Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-5 0.5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|--------|-----------|-----|-----|--------|
| p-Terphenyl d-14 | IJ28PA | Surrogate | n/a | n/a | 116% |

| | Sample ID | : BH-6 0.5 | 5-2.5 | | Matrix: Soil |
|-----------------------------------|-----------|------------|-------|----------|----------------|
| Paracel ID: C1475.5 | | | | Date Sam | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Ethylbenzene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Toluene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| m/p-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| o-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Toluene-D8 | IJ26BB | Surrogate | n/a | n/a | 104% |
| Petroleum Hydrocarbons (gasoline) | A0000249 | ug/g | 10 | 10 | nd |
| Petroleum Hydrocarbons (diesel) | A0000249 | ug/g | 10 | 10 | nd |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 18,000 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 200 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 23,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 30 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 20 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 25,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 180 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 2,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 110 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 2.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 18 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 600 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 750 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 240 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 26 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 140 |

| | Sample ID: BH-8 0-2 | | | Matrix: Soil | | | |
|---------------------|---------------------|-------|------|--------------|------------------------|--|--|
| Paracel ID: C1475.6 | • | • | | | Date Sampled: 09/26/97 | | |
| Parameter | Run ID | units | DL | PQL | Result | | |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 6,700 | | |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 51 | | |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd | | |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd | | |

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Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-8 0-2 Continued | Run ID | units | DL | PQL | Result |
|----------------------------|----------|-------|-----|-----|---------|
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 120,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 10 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 2.0 |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 7.0 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 9,900 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 50 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 41,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 450 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 3.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 11 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 600 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 300 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 120 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 14 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 52 |

| | Sample ID |): BH-8 2.4 | 5-4.5 | | Matrix: Soil |
|------------------------|---------------------------------------|-------------|--------|----------|-----------------|
| Paracel ID: C1475.7 | • • • • • • • • • • • • • • • • • • • | | | Date Sar | npled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Acenaphthene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.016 |
| Acenaphthylene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.016 |
| Anthracene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.066 |
| Benzo[a]anthracene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.15 |
| Benzo[a]pyrene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.17 |
| Benzo[b+k]fluoranthene | IJ28PA | ug/g | 0.0066 | 0.033 | 0.23 |
| Benzo[ghi]perylene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.083 |
| Biphenyl | IJ28PA | ug/g | 0.0033 | 0.017 | 0.033 |
| Chrysene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.17 |
| Dibenzo[a,h]anthracene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.033 |
| Fluoranthene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.26 |
| Fluorene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.016 |
| Indeno[1,2,3-cd]pyrene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.066 |
| 1-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.17 |
| 2-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.18 |
| Naphthalene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.13 |
| Phenanthrene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.28 |
| Pyrene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.23 |
| 2-Fluorobiphenyl | IJ28PA | Surrogate | n/a | n/a | NA - Dilution |
| p-Terphenyl d-14 | IJ28PA | Surrogate | n/a | n/a | NA - Dilution |

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Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| Paracel ID: C1475.8 | Sample ID |): BH-9 0. | 5-2.5 | D 1 0 | Matrix: Soil |
|------------------------|-----------|------------|--------|--------|----------------|
| Parameter | Run ID | | - DI | | oled: 09/26/97 |
| Aluminum (ICP) | | units | DL | PQL | Result |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 16,000 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 230 |
| Cadmium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1.0 |
| | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 36,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 15 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 20 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 30,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 33 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 2,700 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 160 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 3.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 17 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 800 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 980 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 260 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 25 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 41 |
| Acenaphthene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.026 |
| Acenaphthylene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.016 |
| Anthracene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.0099 |
| Benzo[a]anthracene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.069 |
| Benzo[a]pyrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.069 |
| Benzo[b+k]fluoranthene | IJ28PA | ug/g | 0.0066 | 0.0066 | 0.073 |
| Benzo[ghi]perylene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.026 |
| Biphenyl | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.11 |
| Chrysene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.096 |
| Dibenzo[a,h]anthracene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.0099 |
| Fluoranthene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.083 |
| Fluorene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.023 |
| Indeno[1,2,3-cd]pyrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.016 |
| 1-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.99 |
| 2-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.0033 | 1.2 |
| Naphthalene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.69 |
| Phenanthrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.49 |
| Pyrene | IJ28PA | ug/g | 0.0033 | 0.0033 | 0.086 |
| 2-Fluorobiphenyl | IJ28PA | Surrogate | n/a | n/a | 80% |
| p-Terphenyl d-14 | JJ28PA | Surrogate | n/a | n/a | 90% |

Certificate of Analysis

Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| | Sample ID | : BH-10 0 | .5-2.5 | | Matrix: Soil |
|---------------------|-----------|-----------|--------|----------|-----------------|
| Paracel ID: C1475.9 | • | | | Date San | npled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 13,000 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 260 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 190,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 12 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1.0 |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 29 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 21,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 130 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 9,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 330 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 3.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 16 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 1,100 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 680 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 400 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 14 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 120 |

| Sample ID: BH-14 0.5-2.5 Matrix: S | | | | | | | | |
|------------------------------------|----------------------|-----------|--------|-------|--------|--|--|--|
| Paracel ID: C1475.10 | Paracel ID: C1475.10 | | | | | | | |
| Parameter | Run ID | units | DL | PQL | Result | | | |
| Benzene | IJ26BB | ug/g | 0.025 | 0.038 | nd | | | |
| Ethylbenzene | IJ26BB | ug/g | 0.025 | 0.038 | nd | | | |
| Toluene | IJ26BB | ug/g | 0.025 | 0.038 | nd | | | |
| m/p-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd | | | |
| o-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd | | | |
| Toluene-D8 | IJ26BB | Surrogate | n/a | n/a | 106% | | | |
| Petroleum Hydrocarbons (gasoline) | A0000249 | ug/g | 10 | 10 | nd | | | |
| Petroleum Hydrocarbons (diesel) | A0000249 | ug/g | 10 | 10 | nd | | | |
| Acenaphthene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.050 | | | |
| Acenaphthylene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.050 | | | |
| Anthracene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.26 | | | |
| Benzo[a]anthracene | IJ28PA | ug/g | 0.0033 | 0.017 | 1.0 | | | |
| Benzo[a]pyrene | IJ28PA | ug/g | 0.0033 | 0.017 | 1.6 | | | |
| Benzo[b+k]fluoranthene | IJ28PA | ug/g | 0.0066 | 0.033 | 1.8 | | | |
| Benzo[ghi]perylene | IJ28PA | ug/g | 0.0033 | 0.017 | 1.2 | | | |
| Biphenyl | IJ28PA | ug/g | 0.0033 | 0.017 | nd | | | |

Certificate of Analysis

Date: 10/06/97 Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-14 0.5-2.5 Continued | Run ID | units | DL | PQL | Result |
|---------------------------------|--------|-----------|--------|-------|---------------|
| Chrysene | IJ28PA | ug/g | 0.0033 | 0.017 | 1.0 |
| Dibenzo[a,h]anthracene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.30 |
| Fluoranthene | IJ28PA | ug/g | 0.0033 | 0.017 | 1.7 |
| Fluorene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.050 |
| Indeno[1,2,3-cd]pyrene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.89 |
| 1-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.033 |
| 2-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.033 |
| Naphthalene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.033 |
| Phenanthrene | IJ28PA | ug/g | 0.0033 | 0.017 | 0.63 |
| Pyrene | IJ28PA | ug/g | 0.0033 | 0.017 | 1.6 |
| 2-Fluorobiphenyl | IJ28PA | Surrogate | n/a | n/a | NA - Dilution |
| p-Terphenyl d-14 | IJ28PA | Surrogate | n/a | n/a | NA - Dilution |

| | Sample ID | : BH-15 3.0 | 0-5.0 | The second of th | Matrix: Soil |
|-----------------------------------|-----------|-------------|-------|--|----------------|
| Paracel ID: C1475.11 | | | | Date Sam | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Ethylbenzene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Toluene | JJ26BB | ug/g | 0.025 | 0.038 | nd |
| m/p-Xylene | JJ26BB | ug/g | 0.025 | 0.038 | nd |
| o-Xylene | JJ26BB | ug/g | 0.025 | 0.038 | nd |
| Toluene-D8 | IJ26BB | Surrogate | n/a | n/a | 104% |
| Petroleum Hydrocarbons (gasoline) | A0000249 | ug/g | 10 | 10 | nd |
| Petroleum Hydrocarbons (diesel) | A0000249 | ug/g | 10 | 10 | nd |

| | Sample II | D: BH-19 | 0-2 | | Matrix: Soil |
|----------------------|-----------|----------|------|----------|----------------|
| Paracel ID: C1475.12 | • | | | Date Sam | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 5,100 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 63 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 100,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 13 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 19 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 10,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 350 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 15,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 260 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 13 |

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Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-19 0-2 Continued | Run ID | units | DL | PQL | Result |
|-----------------------------|----------|-------|-----|-----|--------|
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 600 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 230 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 370 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 27 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 190 |

| Sample ID: BH-21 0.5-2.5 Matrix: So | | | | | | |
|-------------------------------------|----------|-----------|--------|----------|-----------------|--|
| Paracel ID: C1475.13 | _ | | | Date San | npled: 09/26/97 | |
| Parameter | Run ID | units | DL | PQL | Result | |
| Benzene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| Ethylbenzene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| Toluene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| m/p-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| o-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd | |
| Toluene-D8 | IJ26BB | Surrogate | n/a | n/a | 98% | |
| Petroleum Hydrocarbons (gasoline) | A0000249 | ug/g | 10 | 10 | nd | |
| Petroleum Hydrocarbons (diesel) | A0000249 | ug/g | 10 | 10 | nd | |
| Acenaphthene | IJ28PA | ug/g | 0.0033 | 0.033 | nd | |
| Acenaphthylene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.033 | |
| Anthracene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.033 | |
| Benzo[a]anthracene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.23 | |
| Benzo[a]pyrene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.23 | |
| Benzo[b+k]fluoranthene | IJ28PA | ug/g | 0.0066 | 0.066 | 0.26 | |
| Benzo[ghi]perylene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.099 | |
| Biphenyl | IJ28PA | ug/g | 0.0033 | 0.033 | 0.066 | |
| Chrysene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.26 | |
| Dibenzo[a,h]anthracene | IJ28PA | ug/g | 0.0033 | 0.033 | nd | |
| Fluoranthene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.26 | |
| Fluorene | IJ28PA | ug/g | 0.0033 | 0.033 | nd | |
| Indeno[1,2,3-cd]pyrene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.066 | |
| 1-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.63 | |
| 2-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.69 | |
| Naphthalene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.46 | |
| Phenanthrene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.46 | |
| Pyrene | IJ28PA | ug/g | 0.0033 | 0.033 | 0.30 | |
| 2-Fluorobiphenyl | IJ28PA | Surrogate | n/a | n/a | NA - Dilution | |
| p-Terphenyl d-14 | IJ28PA | Surrogate | n/a | n/a | NA - Dilution | |

Certificate of Analysis

Date: **10/06/97** Order # **C1475**

Client: Intera Consultants Ltd.

Client Ref: 97-237

| | Sample ID | BH-22 0 | .5-2.5 | V-1101343-00 | Matrix: Soil |
|----------------------|-----------|---------|--------|--------------|----------------|
| Paracel ID: C1475.14 | • | | | Date Sami | oled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 12,000 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 310 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1.0 |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 42,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 13 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 31 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 32,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 96 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 2,800 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 180 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 4.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 18 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 500 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 550 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 190 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 26 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 55 |

| | Sample ID: | BH-23 0. | 5-2.5 | | Matrix: Soil |
|----------------------|------------|----------|-------|----------|-----------------|
| Paracel ID: C1475.15 | - | | | Date San | npled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 14,000 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 650 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1.0 |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 78,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 18 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 75 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 32,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1,200 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 7,200 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 410 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 5.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 15 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 700 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |

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Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-23 0.5-2.5 Continued | Run ID | units | DL | PQL | Result |
|---------------------------------|----------|-------|-----|-----|--------|
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 750 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 240 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 27 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 220 |

| Sample ID: BH-25 0.5-2.5 | | | | · , | Matrix: Soil |
|-----------------------------------|----------|-----------|-------|----------|----------------|
| Paracel ID: C1475.16 | | | | Date San | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Benzene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Ethylbenzene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Toluene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| m/p-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| o-Xylene | IJ26BB | ug/g | 0.025 | 0.038 | nd |
| Toluene-D8 | IJ26BB | Surrogate | n/a | n/a | 103% |
| Petroleum Hydrocarbons (gasoline) | A0000249 | ug/g | 10 | 10 | nd |
| Petroleum Hydrocarbons (diesel) | A0000249 | ug/g | 10 | 10 | 140 |

| | Sample ID: | BH-30 0 | .5-2.5 | | Matrix: Soil |
|----------------------|------------|---------|--------|----------|----------------|
| Paracel ID: C1475.17 | • | | | Date San | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 10,000 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 160 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 100,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 25 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 16 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 20,000 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 160 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 6,500 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 160 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 3.0 |
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 14 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 500 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 550 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 240 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 19 |

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Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-30 0.5-2.5 Continued | Run ID | units | DL | PQL | Result |
|---------------------------------|----------|-------|-----|-----|--------|
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 120 |

| | Sample ID | : BH-12 0. | 5-2.5 | | Matrix: Soil |
|------------------------|-----------|------------|--------|----------|-----------------|
| Paracel ID: C1475.18 | • | | | Date Sar | npled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Acenaphthene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.025 |
| Acenaphthylene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.074 |
| Anthracene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.084 |
| Benzo[a]anthracene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.36 |
| Benzo[a]pyrene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.49 |
| Benzo[b+k]fluoranthene | IJ28PA | ug/g | 0.0066 | 0.0070 | 0.56 |
| Benzo[ghi]perylene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.20 |
| Biphenyl | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.011 |
| Chrysene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.34 |
| Dibenzo[a,h]anthracene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.070 |
| Fluoranthene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.53 |
| Fluorene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.028 |
| Indeno[1,2,3-cd]pyrene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.20 |
| 1-Methylnaphthalene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.025 |
| 2-Methylnaphthalene | . IJ28PA | ug/g | 0.0033 | 0.0035 | 0.032 |
| Naphthalene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.028 |
| Phenanthrene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.22 |
| Pyrene | IJ28PA | ug/g | 0.0033 | 0.0035 | 0.46 |
| 2-Fluorobiphenyl | IJ28PA | Surrogate | n/a | n/a | NA - Dilution |
| p-Terphenyl d-14 | IJ28PA | Surrogate | n/a | n/a | NA - Dilution |

| | Sample ID | : BH-4 0. | 5-2.5 | | Matrix: Soil |
|----------------------|-----------|-----------|-------|----------|----------------|
| Paracel ID: C1475.19 | <u>-</u> | | | Date Sam | pled: 09/26/97 |
| Parameter | Run ID | units | DL | PQL | Result |
| Aluminum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 6,100 |
| Barium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 63 |
| Beryllium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Cadmium (ICP) | BIASG005 | ug/g | 0.50 | 0.50 | nd |
| Calcium (ICP) | BIASG005 | ug/g | 100 | 100 | 180,000 |
| Chromium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 9.0 |
| Cobalt (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 1.0 |
| Copper (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 10 |
| Iron (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 8,400 |
| Lead (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 49 |
| Magnesium (ICP) | BIASG005 | ug/g | 100 | 100 | 23,000 |
| Manganese (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 340 |
| Molybdenum (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |

Certificate of Analysis

Date: 10/06/97

Order # C1475

Client: Intera Consultants Ltd.

Client Ref: 97-237

| Sample: BH-4 0.5-2.5 Continued | Run ID | units | DL | PQL | Result |
|--------------------------------|----------|-------|-----|-----|--------|
| Nickel (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 9.0 |
| Potassium (ICP) | BIASG005 | ug/g | 100 | 100 | 900 |
| Silver (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | nd |
| Sodium (ICP) | BIASG005 | ug/g | 25 | 25 | 500 |
| Strontium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 210 |
| Thallium (ICP) | BIASG005 | ug/g | 4.0 | 4.0 | nd |
| Vanadium (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 12 |
| Zinc (ICP) | BIASG005 | ug/g | 1.0 | 1.0 | 40 |

QA/QC Report - MATRIX BLANK

Note - The following portion of this report includes Matrix Blank data relating to all of the samples included in the Certificate of Analysis.

- More that one Matrix Blank for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Blank to particular samples.

| Method:SW-846 8015/3500A (GC-FID) | | | |
|-----------------------------------|-------|----|--------------|
| Run ID: A0000249 | | | Matrix: Soil |
| Parameter | units | DL | Measured |
| Petroleum Hydrocarbons (gasoline) | ug/g | 10 | nd |
| Petroleum Hydrocarbons (diesel) | ug/g | 10 | nd |

| Method:SW-846 Method 8260/35 Run ID: IJ26BB | 550 | | Matrix: Soil |
|---|-----------|-------|--------------|
| Parameter | units | DL | Measured |
| Benzene | ug/g | 0.025 | nd |
| Ethylbenzene | ug/g | 0.025 | nd |
| Toluene | ug/g | 0.025 | nd |
| m/p-Xylene | ug/g | 0.025 | nd |
| o-Xylene | ug/g | 0.025 | nd |
| Toluene-D8 | Surrogate | n/a | 96% |

| Method: Modified SW-846 Method 8270 | | | |
|-------------------------------------|-----------|--------|--------------|
| Run ID: IJ28PA | | | Matrix: Soil |
| Parameter | units | DL | Measured |
| Acenaphthene | ug/g | 0.0033 | nd |
| Acenaphthylene | ug/g | 0.0033 | nd |
| Anthracene | ug/g | 0.0033 | nd |
| Benzo[a]anthracene | ug/g | 0.0033 | nd |
| Benzo[a]pyrene | ug/g | 0.0033 | nd |
| Benzo[b+k]fluoranthene | ug/g | 0.0066 | nd |
| Benzo[ghi]perylene | ug/g | 0.0033 | nd |
| Biphenyl | ug/g | 0.0033 | nd |
| Chrysene | ug/g | 0.0033 | nd |
| Dibenzo[a,h]anthracene | ug/g | 0.0033 | nd |
| Fluoranthene | ug/g | 0.0033 | nd |
| Fluorene | ug/g | 0.0033 | nd |
| Indeno[1,2,3-cd]pyrene | ug/g | 0.0033 | nd |
| 1-Methylnaphthalene | ug/g | 0.0033 | nd |
| 2-Methylnaphthalene | ug/g | 0.0033 | nd |
| Naphthalene | ug/g | 0.0033 | nd |
| Phenanthrene | ug/g | 0.0033 | nd |
| Pyrene | ug/g | 0.0033 | nd |
| 2-Fluorobiphenyl | Surrogate | n/a | 83% |
| p-Terphenyl d-14 | Surrogate | n/a | 107% |
| Acenaphthene | ug/g | 0.0033 | nd |
| Acenaphthylene | ug/g | 0.0033 | nd |
| Anthracene | ug/g | 0.0033 | nd |
| Benzo[a]anthracene | ug/g | 0.0033 | nd |

Date: 10/06/97

QA/QC Report - MATRIX BLANK

| Run ID IJ28PA Continued | units | DL | Measured |
|-------------------------|-----------|--------|----------|
| Benzo[a]pyrene | ug/g | 0.0033 | nd |
| Benzo[b+k]fluoranthene | ug/g | 0.0066 | nd |
| Benzo[ghi]perylene | ug/g | 0.0033 | nd |
| Biphenyl | ug/g | 0.0033 | nd |
| Chrysene | ug/g | 0.0033 | nd |
| Dibenzo[a,h]anthracene | ug/g | 0.0033 | nd |
| Fluoranthene | ug/g | 0.0033 | nd |
| Fluorene | ug/g | 0.0033 | nd |
| Indeno[1,2,3-cd]pyrene | ug/g | 0.0033 | nd |
| 1-Methylnaphthalene | ug/g | 0.0033 | nd |
| 2-Methylnaphthalene | ug/g | 0.0033 | nd |
| Naphthalene | ug/g | 0.0033 | nd |
| Phenanthrene | ug/g | 0.0033 | nd |
| Pyrene | ug/g | 0.0033 | nd |
| 2-Fluorobiphenyl | Surrogate | n/a | 60% |
| p-Terphenyl d-14 | Surrogate | n/a | 78% |

QA/QC Report - REFERENCE STANDARD

Note - The following portion of this report includes Reference Standard data relating to all of the samples included in the Certificate of Analysis.

- More that one Reference Standard for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Reference Standard to particular samples.

| Method SW-846 8015/3500A (GC-FID) | | | - 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2 | |
|-----------------------------------|----------|-----|---|--------------|
| Run ID: A0000249 | | | | Matrix: Soil |
| Parameter | Expected | LLA | ULA | Recovery |
| Petroleum Hydrocarbons (gasoline) | 100 ug/g | 49% | 141% | 100% |
| Petroleum Hydrocarbons (diesel) | 300 ug/g | 49% | 141% | 111% |

| Method SW-846 Method 8260 | 0/3550 | | | |
|---------------------------|-----------|-----|------|--------------|
| Run ID: IJ26BB | | | | Matrix: Soil |
| Parameter | Expected | LLA | ULA | Recovery |
| Benzene | 2.5 ug/g | 50% | 150% | 99% |
| Ethylbenzene | 2.5 ug/g | 37% | 162% | 104% |
| Toluene | 2.5 ug/g | 50% | 150% | 104% |
| m/p-Xylene | 5.0 ug/g | 50% | 150% | 103% |
| o-Xylene | 2.5 ug/g | 70% | 130% | 102% |
| Toluene-D8 | Surrogate | 50% | 150% | 100% |

| Method Modified SW-846 Method 827 | '0 | | *************************************** | | |
|-----------------------------------|-----------|-----|---|----------|--|
| Run ID: IJ28PA Matrix | | | | | |
| Parameter | Expected | LLA | ULA | Recovery | |
| Acenaphthene | 0.33 ug/g | 47% | 145% | 106% | |
| Acenaphthylene | 0.33 ug/g | 33% | 145% | 90% | |
| Anthracene | 0.33 ug/g | 27% | 133% | 102% | |
| Benzo[a]anthracene | 0.33 ug/g | 33% | 143% | 88% | |
| Benzo[a]pyrene | 0.33 ug/g | 17% | 163% | 109% | |
| Benzo[b+k]fluoranthene | 0.67 ug/g | 11% | 162% | 85% | |
| Benzo[ghi]perylene | 0.33 ug/g | 1% | 219% | 32% | |
| Biphenyl | 0.33 ug/g | 35% | 114% | 96% | |
| Chrysene | 0.33 ug/g | 17% | 168% | 86% | |
| Dibenzo[a,h]anthracene | 0.33 ug/g | 1% | 227% | 24% | |
| Fluoranthene | 0.33 ug/g | 26% | 137% | 109% | |
| Fluorene | 0.33 ug/g | 59% | 121% | 80% | |
| Indeno[1,2,3-cd]pyrene | 0.33 ug/g | 1% | 171% | 28% | |
| 1-Methylnaphthalene | 0.33 ug/g | 35% | 114% | 91% | |
| 2-Methylnaphthalene | 0.33 ug/g | 35% | 114% | 84% | |
| Naphthalene | 0.33 ug/g | 21% | 133% | 94% | |
| Phenanthrene | 0.33 ug/g | 54% | 120% | 125% | |
| Pyrene | 0.33 ug/g | 52% | 115% | 111% | |
| 2-Fluorobiphenyl | Surrogate | 43% | 116% | 101% | |
| p-Terphenyl d-14 | Surrogate | 33% | 141% | 166% | |

Reference - 1

Date: 10/06/97

QA/QC Report - MATRIX DUPLICATE

Note - The following portion of this report includes Matrix Duplicate data relating to all of the samples included in the Certificate of Analysis.

- More that one Matrix Duplicate for a parameter parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Duplicate to particular samples.

| Method: SW-846 8015/3500A (GC-FID) Run ID: A0000249 | | | | Matrix: Soil |
|---|-------|--------------------|-------------------|--------------------|
| Parameter | units | Detection Limit | Reported Value | Duplicate Value |
| Petroleum Hydrocarbons (gasoline) | ug/g | 10 | nd | nd |
| Petroleum Hydrocarbons (diesel) | ug/g | 10 | nd | nd |

| Method: SW-846 Method 8 | 260/3550 | | | |
|-------------------------|-----------|-----------|--------------|-----------|
| Run ID: IJ26BB | | | Matrix: Soil | |
| | | Detection | Reported | Duplicate |
| Parameter | units | Limit | Value | Value |
| Benzene | ug/g | 0.038 | nd | nd |
| Ethylbenzene | ug/g | 0.038 | nd | nd |
| Toluene | ug/g | 0.038 | nd | nd |
| m/p-Xylene | ug/g | 0.038 | nd | nd |
| o-Xylene | ug/g | 0.038 | nd | nd |
| Toluene-D8 | Surrogate | | 101% | 102% |

Date: 10/06/97

Date: 10/06/97

QA/QC Report - MATRIX SPIKE

Note - The following portion of this report includes Matirx Spike data relating to all of the samples included in the Certificate of Analysis.

- More that one Matrix Spike for a parameter usually indicates that the samples were analyzed under more that one QC group. The Run ID can be used to relate a Matrix Spike to particular samples.

| Method: SW-846 8015/3500A (GC- | -FID) | • | | • | |
|-----------------------------------|----------|----------|-----|-----|--------------|
| Run ID: A0000249 | • | | | | Matrix: Soil |
| Parameter | Expected | Measured | LLA | ULA | Meas./Expt. |
| Petroleum Hydrocarbons (gasoline) | 50 ug/g | 66 | 49 | 141 | 131% |
| Petroleum Hydrocarbons (diesel) | 150 ug/g | 200 | 49 | 141 | 131% |

| Method: SW-846 Method | 8260/3550 | | | | |
|-----------------------|-----------|----------|-----|------|--------------|
| Run ID: IJ26BB | | | | | Matrix: Soil |
| Parameter | Expected | Measured | LLA | ULA | Meas./Expt. |
| Benzene | 3.8 ug/g | 3.3 | 50 | 150 | 87% |
| Ethylbenzene | 3.8 ug/g | 3.4 | 37 | 162 | 91% |
| Toluene | 3.8 ug/g | 3.5 | 50 | 150 | 93% |
| m/p-Xylene | 7.5 ug/g | 7.1 | 50 | 150 | 94% |
| o-Xylene | 3.8 ug/g | 3.6 | 70 | 130 | 96% |
| Toluene-D8 | Surrogate | | 50% | 150% | 105% |

Paracel Laboratories Ltd.

Glossary of Terms

The laboratory Detection Limit. The value is based on instrument response and is the lowest level

that can be quantitated with confidence

The Practical Quantitation Limit for the sample. It is the lowest level at which the parameter could

be quantitated in this sample. Elevated practical quantitation limits may be due to high analyte

concentration, matrix interferences, available sample volume, or other factors.

nd Not detected or found below the detection limit.

n/a Not applicable to this particular analysis.

Surrogate Surrogates are 'not naturally occuring' compounds which are added to the sample prior to analysis in order to monitor method performance. The results of the surrogate recoveries are reported in

percent.

Blank The results from the analysis of a matrix blank in the same run.

Duplicate
Data
The results from an intralaboratory split sample that has been processed identically to that of the primary sample. Result for split sample are listed together with the results from the primary

sample.

Reference Results from the analysis of a Reference Standard. A Reference Standard is a standard that contains the parameters of interest and is procured from a source secondary to the Calibration

standard.

EXPECTED: The actual concentration of the analyte in the Reference Standard.

dependent on the level of the analyte found in the sample and spike.

SAMPLE - Results from the analysis of the unfortified sample.

SPIKE- Results from the analysis of the unfortified sample.

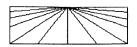
RECOVERY - Recovery of the spiked material reported in percent.

LLA Lower Limit of Acceptability for QC recovery data.

ULA Upper Limit of Acceptability for QC recovery data.

Glossary

Date: 10/06/97



CLIENT INFORMATION

PARACEL LABORATORIES LTD.

2319 St. Laurent Blvd., Unit 100, Ottawa, ON, Canada K1G 4K6

Tel: (613) 731-9577 Fax: (613) 731-9064

Nº P 2820

CHAIN OF CUSTODY REPORT

| CONTA | CT: AUSTIN SWEET | 67 | | | | | | | | DA | ATE: . | | | | | | | |
|--------|-------------------------------------|--------|----------|---|-----------------|------|--------------|----------|-------------|-------|---------|-------|-------------|----------|--|-------------------|---|-------|
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| PHONE | NUMBER: 232-252 | 5 | | | | | | | F | AX: _ | | 23 | Z - | 71 | 49 | | | ş |
| | JMBER: 97-237 | | PF | ROJEC | CT: | 9- | 7- 7 | 237 | | | | | REFE | RENC | E: | | | - |
| | SAMPLE INFORMA | TIOI | N | | | | | | A | ANAI | LYSI | S RI | EQUI | RED | | | | er. |
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| | SAMPLE IDENTIFICATION | С | I X | Т | 872EX | 12 | lu | 1 | | | | | | | | | | esi |
| 1 | BH-14 0.5-2.51 | 1 | 5 | S | V | V | | | | | | | | | | | | |
| 2 | Bit - 15 312-5101 | | 5 | 1, | l | V | | | | | | | | | | | | |
| 3 | BH-19 0-2' | 1 | 5 | 10 | | | V | | | | | | | | | | | |
| 4 | BH-21 Q5-251 | / | 5 | | | 0 | | V | | | | | | | | | | ti.s. |
| | BH-22 0.5-2.5 | / | 5 | | | | / | | | | | | | | | | | |
| 6 | BH-23 0.5-2.5 | / | 5 | | | | \checkmark | | | | | | | | | | | |
| | BH-25 6.5-2.5 | / | 5 | | 0 | ~ | | | | | | | | | | | | |
| 8 | Bit-30 0,5-2,5 | 1 | 5 | | | | 1 | | | | | ļ | | | | | | |
| 9 | BH-12 0.5-2.5 | 1 | 5 | | | | | <u> </u> | | | | | ļ | <u> </u> | | | | |
| 10 | BH-4 05-25 | 1 | 5 | | | | V | | | | | | | | | | | |
| | Preservation done in field (Y/N): | | | *************************************** | | | | | | | | | | | | | | |
| | Preservative to be added by Paracel | l (Y/N |): | : | | | | | | | | | | | | <u> </u> | | |
| | | | | | | LEGI | ZNID | | | | | | | | | | | |
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| Date: | 26 5817 97 Time | 1 | 1:0 | 5 | | | Date: | 20 | 6 | SEP | 7 | 77 | Time | e: | | | | ! |

APPENDIX C

Regulatory Information and Correspondence

CHAIN OF TITLE REPORT

| Project # | 20161031160 | Searched at: | Ottawa | | |
|--------------|---|--------------|----------------------------------|--------|---------------------------------|
| Address: | 289 Carling Avenue, Ottawa | LRO #: | 4 | Page 1 | |
| Legal | Part Lots 8, 9 & 11, Lot 10, Plan 31326 | | | | |
| Description: | | | | | |
| DIVIE | Part 1, 5R4231 | | | | |
| PIN# | 04104-0234(LT) | | | | |
| INSTR# | DOC. TYPE | REG. DATE | PARTY FROM | | PARTY TO |
| | Patent | 25 02 1809 | Crown | | Robert RANDELL |
| 10 | Sheriff's Deed | 20 12 1820 | Sheriff Stewart | | John LeBRETON |
| 11 | 1 Deed | 20 12 1820 | John LeBreton | | Levius P. SHERWOOD |
| 6778 | B Deed | 26 10 1853 | Levius P. Sherwood - Estate | | Hon. George SHERWOOD |
| 27870 | 6 Deed | 28 01 1868 | Hon. George Sherwood | | Emily SHERWOOD |
| 297 | 7 Deed | 05 08 1891 | Emily Sherwood - Estate | | Ethel SHERWOOD & Arhur SHERWOOD |
| 7550 | 0 Deed | 29 05 1900 | Ethel Sherwood & Arthur Sherwood | | Henry SHERWOOD |
| 9540 | 6 Deed | 14 12 1900 | Henry Sherwood | | Hilda SHERWOOD |
| 954 | 4 Deed | 14 12 1900 | Hilda Sherwood | | Federal District Commission |
| | | | Cont'd on Page 2 | | |

CHAIN OF TITLE REPORT

| Project # Address: Legal Description: PIN# | 20161031160 289 Carling Avenue, Ottawa Part Lots 8, 9 & 11, Lot 10, Plan 31326 N Carling Ave & E Bell St Part 1, 5R4231 04104-0235 (LT) | Searched at: LRO #: | Ottawa Page | 2 |
|--|--|------------------------|---|---|
| INSTR# | DOC. TYPE | REG. DATE | PARTY FROM | PARTY TO |
| CR60752 | 3 Deed | 16 03 1972 | National Capital Commission | Her Majesty The Queen In Right of Canada Represented By The Minister of Public Works |
| OC157181 | 9 Deed (Present Owner) | 11 04 2014 | Her Majesty The Queen In Right of Canada Represented By The Minister of Public Works | Canada Lands Company CLC Limited |



LAND REGISTRY

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

04104-0234 (LT)

ON 2016/11/04 AT 13:48:52 PAGE 1 OF 2 PREPARED FOR Bertucci

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT * OFFICE #4

PT LTS 8 & 9 & LT 10 & PT LT 11, PL 31326 , N CARLING AV & E BELL ST, PT 1, 5R4231 ; OTTAWA/NEPEAN

ESTATE/QUALIFIER: PROPERTY REMARKS: PROPERTY DESCRIPTION:

LT CONVERSION QUALIFIED FEE SIMPLE

RECENTLY:
FIRST CONVERSION FROM BOOK 591

1996/06/24 PIN CREATION DATE:

| OWNERS' NAMES | 8 | LIMITED | CITY | SHARE | מן משרדשנע | CBRT/ |
|---------------|-----------------------------|--|------------------------------|--|--|--------------|
| REG. NUM. | DATE | Instrument TYPE | AMOUNT | PARTIES FROM | PARTIES TO | CHICO |
| **EFFECTIVE | 2000/07/29 | THE NOTATION OF THE | BLOCK IMPLEMENTATION | "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN** | | |
| **WAS REPLA | **WAS REPLACED WITH THE | "PIN CREATION DATE | OF 1996/06/24** | | | |
| ** PRINTOUT | INCLUDES ALL | DOCUMENT TYPES AND | DELETED INSTRUMENTS | S SINCE: 1996/06/21 ** | | |
| **SUBJECT, | ON FIRST REGI | ON FIRST REGISTRATION UNDER THE L | LAND TITLES ACT, TO: | • | | |
| * | SUBSECTION 4 | SUBSECTION 44(1) OF THE LAND TITLES ACT, | EXCEPT | PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * | | |
| * | AND ESCHEATS | OR FORFEITURE TO THE | B CROWN. | | | |
| * | THE RIGHTS OF | F ANY PERSON WHO WOULD, | LD, BUT FOR THE LAND | ND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF | | |
| * | IT THROUGH L | DENGTH OF ADVERSE POS | POSSESSION, PRESCRIPTION, | ON, MISDESCRIPTION OR BOUNDARIES SETTLED BY | | |
| * | CONVENTION. | | | | | |
| * | ANY LEASE TO | NHICH THE | SUBSECTION 70(2) OF THE REGI | REGISTRY ACT APPLIES. | | |
| **DATE OF | CONVERSION TO | LAND TITLES: 1996/06/24 | \$/24 ** | | | |
| CR607523 | 1972/03/16 | TRANSFER | | *** DELETED AGAINST THIS PROPERTY *** | HER MAJESTY THE QUEEN IN RIGHT OF CANADA REPRESENTED BY THE MINISTER OF PUBLIC WORKS | |
| RE | REMARKS: SKETCH | ATTACHED | | | | |
| 5R4231 | 1979/04/20 | PLAN REFERENCE | | | | Ω ——— |
| LT1326433 | 2000/10/04 | CERT PENDING LIT | | *** COMPLETELY DELETED *** 1384274 ONTARIO INC. | HER MAJESTY THE QUEEN IN RIGHT OF CANADA | |
| LT1329897 | 2000/10/19 | APL COURT ORDER | | *** COMPLETELY DELETED *** SUPERIOR COURT OF JUSTICE | 1384274 ONTARIO INC. | |
| RE | REMARKS: DELETING LT1326433 | NG LT1326433 | | | | - Indian |

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.



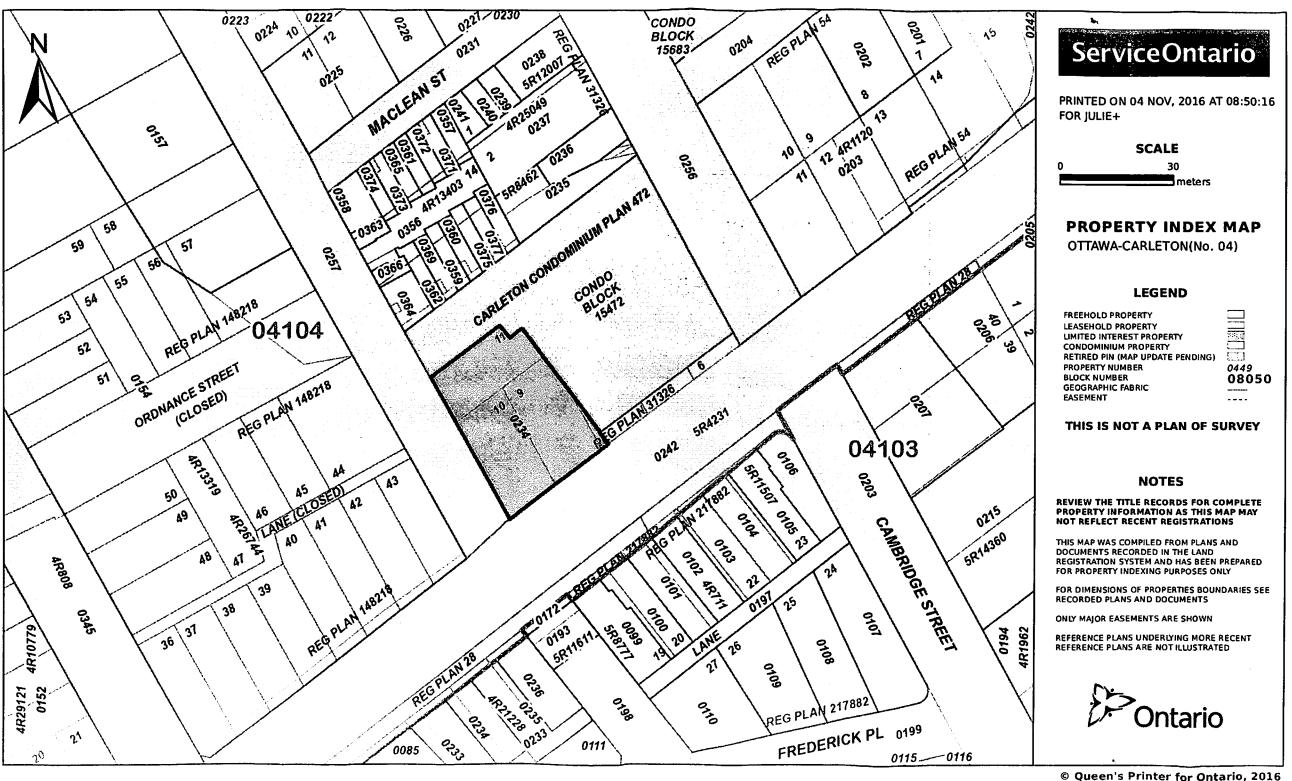
LAND REGISTRY OFFICE #4

04104-0234 (LT)

PAGE 2 OF 2 PREPARED FOR Bertucci ON 2016/11/04 AT 13:48:52

* 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 |
|-----------|----------------------------|--------------------------------|-------------|--|----------------------------------|---------------|
| | 2010/06/04 ARKS: AMENDI | LR'S ORDER NG OWNERS FIELD. | | LAND REGISTRAR, LRO NO. 4 | | C |
| OC1571819 | 2014/04/11 | Transfer | \$2,000,000 | HER MAJESTY THE QUEEN IN RIGHT OF CANADA | CANADA LANDS COMPANY CLC LIMITED | c |



289_CARLING_AVENUE



289_CARLING_AVENUETemplate Updated: 20/05/15

| HLUI_ID | Name | Street Number | Street Name | Comments | Waste Generator # | Type of Facility | Storage Tanks | References | Pin Certainty | PIN |
|---------|---|------------------|-------------|---|----------------------|---|-------------------------------------|---|------------------|------------|
| 1969 | BULGARI GRANITE & MARBLE | 782 | BRONSON | | | Interior and Finishing Work | | 2005 Select Phone | 1 | 04103-0125 |
| 2339 | BP SERVICE STATION | 748 | BRONSON | | | Gasoline Service Stations | | M.1960, M.1970, M.1980 | 2 | 04104-0203 |
| 2742 | CAMBRIDGE LAUNDRY LIMITED | 475 | CAMBRIDGE | 1950 - Computing Devices Canada Ltd. | | Laundries and Cleaners | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 1 | 04104-0127 |
| 2763 | CANADIAN PRESS STEEL WORKS | 788 | BRONSON | | | Fabricated Structural Metal Products Industries | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 1 | 04103-0209 |
| 3068 | CARLING GARAGE | 765 | CARLING | Culligan Soft Water Co. in 1950 Storage tanks are parallel to Carling Ave. and one is parallel to Booth | | Motor Vehicle Repair Shops | 3 UST, gasoline FIP1948, FIP1956 | M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1956; FIP1901-126-752,Vol2; FIP1912-126-752,Vol2; FIP1922-126-752,Vol2; FIP1948-119-752; FIP1956-119-4-752 | 1 | 04104-0152 |
| 3069 | CARLING GARAGE & JOS. A. DIOTTE AUTO | 0 | CARLING | FIP1912, FIP1922 - vacant lot FIP1956 - USTs still there but blank building - to be demolished; 773-783 | | Motor Vehicle Repair Shops | 2 UST | M.1900, M.1910, M.1920, M.1930, M.1940, M. 1949, M.1950; FIP1901- 126-759,vol2; FIP1912-125-759,vol2; FIP1922-125-759A,vol2; FIP1948- 119-759A; FIP1956-119-3-759A | 1 | 04104-0150 |
| 3598 | CLARENCE E LANGLEY - CLEANERS | 0 | BRONSON | 786-788 | | Laundries and Cleaners | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955; FIP1901-87-773,Vol2; FIP1912,Vol2; FIP1922-126-773,Vol2; FIP1948-134- 773; FIP1956-134-4-773,Vol1 | 1 | 04103-0208 |
| 4109 | D & M FIXTURES INC. | 321 | LEBRETON | | | Sash, Door and Other Millwork Industries | | SC98; 2001 Employment Survey | 1 | 04104-0184 |
| 4341 | DAVID SMITH CENTRE | 786 | BRONSON | | | Hospitals | | 2001 Employment Survey | 1 | 04103-0208 |
| 4380 | NATIONAL DEFENSE | 615 | воотн | MAPPING & CHARTING ESTABLISHMENT | ON2487206 | Defence Services | | 2000 PID | 1 | 04104-0152 |
| 4535 | ENGLISH MOTORS | 316 | BELL | | | Motor Vehicles, Wholesale | | 2005 Select Phone | 1 | 04104-0195 |
| 4586 | ERIC AND OSCAR'S AUTO | 316 | BELL | | | Motor Vehicle Repair Shops | Two USTs | M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955, M.1960, M.1970, M.1980; SC98; FIP1901-112A-746,Vol2; FIP1912-127-746B,Vol2; FIP1922-127-746B,Vol2; FIP1948-119-746B; FIP1956-119-2-746B; 2005 Property Assessment | 1 | 04104-0195 |
| 5075 | ECHAFAUDAGES-FAST (OTTAWA) INC. | 385 | BELL | | | Service Industries Incidental to Air Transport should list as Building Development, Construction or similar | | 2001 Employment Survey | 1 | 04104-0225 |
| 5211 | EMILIO LINDIA ENTERPRISES LIMITED | 770 | BRONSON | | | Gasoline Service Stations | 3 USTs in north corner of property | M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955, M.1960, M.1970, M.1980; SC98; FIP1901-87-773,Vol2; FIP1912-126-773,Vol2; FIP1922-126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773; 2005 Property Assessment | 1 | 04103-0205 |
| 5279 | FEDERAL DISTRICT COMMISSION | 291 | CARLING | | | Motor Vehicles, Wholesale | FIP1956 - 1 UST, gasoline. | M.1920, M.1949, M.1956; FIP1901-112A-753,Vol2; FIP1912-126-753,Vol2; FIP1922-126-753,Vol2; FIP1948-119-753; FIP1956-119-4-753 | 1 | 04104-0154 |
| 5329 | FED-PUBLIC WORKS | 580 | воотн | | | General Administrative Services | | 2005 Property Assessment | 1 | 04104-0150 |
| 5499 | FED-FISHERIES | 615 | BOOTH | | | General Administrative Services | | 2001 Employment Survey | 1 | 04104-0152 |
| 5508 | FED-NATURAL RESOURCES | 601 | BOOTH | GEOLOGICAL SURVEY OF CANADA | ON0269503 | Protective Services | | 2000 PID | 1 | 04104-0152 |
| 5531 | G. A. CRAIN AND SONS LIMITED | 555 | CAMBRIDGE | | | Site Work | | M.1948, M.1955; FIP1901-87-773,vol2; FIP1912-126-773,Vol2; FIP1922- 126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773,Vol1 | 1 | 04103-0215 |
| 5850 | GEMINI PROJECTS | 321 | LEBRETON | 321 | | Structural and Related Work | | 2005 Select Phone | 1 | 04104-0184 |
| 5912 | GLEBE COLLEGIATE INSTITUTE | 212 | GLEBE | GLEBE COLLEGIATE INSTITUTE | ON0375210 | Elementary and Secondary Education | | 2000 PID | 1 | 04136-0001 |

289_CARLING_AVENUETemplate Updated: 20/05/15

| HLUI_ID | Name | Street Number | Street Name | Comments | Waste Generator # | Type of Facility | Storage Tanks | References | Pin Certainty | PIN |
|---------|--|------------------|-------------|---|----------------------|---|---------------|---|------------------|------------|
| 6144 | GOODEX EQUIPMENT RENTAL LIMITED | 515 | CAMBRIDGE | | ON4691226 | Service Industries Incidental to Air Transport should list as General Contracting, Construction, Development or similar | | 2003 PID | 1 | 04104-0414 |
| 6320 | MAPPING A(SEE & USE ON2487206)MENT | 615 | воотн | | ON1932200 | Combined Publishing and Printing Industries | | M.1960, M.1970, M.1980; PID1994; 2000 PID | 1 | 04104-0152 |
| 6487 | J. R BOOTH'S LUMBER YARD | 0 | воотн | In 1930 Company was located after Plymouth and CPR tracks, before # 619 Booth. In 1920 it was after Plymouth but before the CPR tracks and #619 Booth | | Lumber and Building Materials, Wholesale | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1956; FIP1901-126-752,Vol2; FIP1912-126-752,Vol2; FIP1922-126-752,Vol2; FIP1948-119-752,Vol2; FIP1956-119-4-752 | 2 | 04104-0152 |
| 6488 | J. R. BOOTH | 0 | CARLING | The property ran along Dow's Lake and the Rideau Canal, and it ran west to the Experimental Farm. | | Lumber and Building Materials, Wholesale | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950, Memories of Hartwell's Lockstation | 2 | 04087-0054 |
| 6490 | J. R. BOOTH -LUMBER YARD | 291 | CARLING | | | Lumber and Building Materials, Wholesale | | M.1920, M.1949, M.1956; FIP1901-112A-753,Vol2; FIP1912-126-753,vol2; FIP1922-126-753,Vol2; FIP1948-119-753; FIP1956-119-4-753 | 1 | 04104-0154 |
| 7166 | J.R. BOOTH | 0 | BRONSON | Wallace St. is now closed. Locate J.R. Booth near Kippewa St. | | Lumber and Building Materials, Wholesale | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 2 | 04103-0139 |
| 7184 | J.R. BOOTH -QUARRY | 374 | BELL | Quarry fills the whole block between Lebreton and Bell as well as half a block between Carling and Henry. | | Stone Quarries | | FIP1901-112A-753,Vol2; FIP1912-127-753,Vol2; FIP1912-126-753,Vol2; FIP1922-126-753,Vol2; FIP1922-112-753,Vol2; FIP1948-119-753; FIP1956-119-4-753, M.1920, M.1921, M.1922, M.1923, M.1949, M.1956 | 2 | 04104-0154 |
| 7383 | JOHN NIXON | 0 | CARLING | 1950 - Carling Garage @ #783 1940 - Gordon's Garage @ #783 | | Hardware, Paint, Glass and Wallpaper Stores (paint storage) | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 1 | 04104-0150 |
| 7809 | SHAW LABORATORIES LIMITED | 794 | BRONSON | | | Other Manufactured Products Industries | | M.1960, M.1970, M.1980; SC98 | 1 | 04103-0210 |
| 7908 | KNR LABORATORIES LIMITED | 794 | BRONSON | | | Medical and Other Health Laboratories | | 2001 Employment Survey | 1 | 04103-0211 |
| 7961 | KORNELL'S TOWING SERVICE | 477 | CAMBRIDGE | | | Motor Vehicles, Wholesale | | M.1960, M.1970, M.1980 | 1 | 04104-0128 |
| 8289 | MACDONNELL AND CONYERS LIMITED | 790 | CAMBRIDGE | This property is at the corner of Cambridge ans Kippewa Drive. It surrounds the property on #581 & 585 Cambridge. The majority of the property is on Cambridge but the northern half extends across to Bronson. | | Sawmill, Planing Mill and Shingle Mill Products Industries | | M.1921, M.1948, M.1955; FIP1901-87-773,Vol2; FIP1912-126-773,Vol2; FIP1922-126-773,Vol2; FIP1948-134-773; FIP1956-134-4-773 | 2 | 04103-0194 |
| 8340 | LGS STEELHOUSE CANADA INC. | 265 | CARLING | #700 | | Residential Building and Development | | 2005 Select Phone | 1 | 04104-0203 |
| 9468 | OLD MARSH ENTERPRISES LIMITED | 463 | CAMBRIDGE | | | Laundries and Cleaners should list as Property Management, Services to Buildings and Dwellings or similar | | 2001 Employment Survey | 1 | 04104-0125 |
| 9842 | NORLAND SCIENCE AND ENGINEERING | 265 | CARLING | | | Other Transportation Equipment Industries | | 2001 Employment Survey | 1 | 04104-0203 |
| 9978 | OTTAWA SUBURBAN ROADS COMMISSION | 279 | CARLING | | | General Administrative Services | | M.1948, M.1955; FIP1901-112A-766, vol2; FIP1912-126-766, Vol2; FIP1922-126-766; FIP1948-134-766; FIP1956-134-4-766, Vol1 | 1 | 15472-0000 |
| 10217 | OTTAWA-CARLETON DISTRICT SCHOOL BOARD | 515 | CAMBRIDGE | BORDEN HIGH SCHOOL | ON0375202 | Elementary and Secondary Education | | 2000 PID | 1 | 04104-0414 |

Prepared By: S. Petrovic City of Ottawa Environmental Remediation Unit 2016-11-25 **289_CARLING_AVENUE**Template Updated: 20/05/15

| HLUI_ID | Name | Street Number | Street Name | Comments | Waste Generator # | Type of Facility | Storage Tanks | References | Pin Certainty | PIN |
|----------|---|------------------|---------------------|---|----------------------|--|-------------------------------------|--|------------------|------------|
| 10325 | PHELPS CONSTRUCTION CO. LIMITED | 12 | PAMILLA | | | Industrial Construction (Other Than Buildings) | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 1 | 04104-0150 |
| 10431 | OTTASTERED FURNITURE MANUFACTURE CO. | 776 | BRONSON | | | Household Furniture Industries | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 1 | 04103-0125 |
| 10527 | PHOTO FINISHERS REGISTERED | 784 | BRONSON | | | Platemaking, Typesetting and Bindery Industry | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 1 | 04103-0125 |
| 10605 | OTTAWA HYDRO ELECTRIC SUB STATION NO. 1 | 247 | GLEBE | | ON0456605 | Electric Power Systems Industry | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1955, M.1960, M.1970, M.1980; FIP1901,Vol2; FIP1912,Vol2; FIP1922,Vol2; FIP1948-134-781; FIP1956-134-4-781,Vol1; PID1994; 2000 PID | 1 | 04135-0158 |
| 10609 | OTTAWA PUBLIC SCHOOL BOARD GARAGE | 0 | BELL | 352 to 360 | | Motor Vehicles, Wholesale | | M.1920, M.1949, M.1956, M.1960, M.1970, M.1980; FIP1901-112A-753,Vol2; FIP1912-127-753,Vol2; FIP1948-119-753; FIP1956-119-4-753 | 1 | 04104-0157 |
| 10702 | PUBLIC WORKS AND GOVERNMENT SERVICES CANADA | 601 | воотн | La Promenade | ON0144787 | Services to Buildings and Dwellings | | 2003 PID | 1 | 04104-0152 |
| 12136 | ROBERT CARE SERVICE STATION | 745 | CARLING | Storage Tanks run at right angles to Carling ave | | Gasoline Service Stations | 3 UST, gasoline FIP1948, FIP1956 | M.1900, M.1910, M.1920, M.1930, M.1940, M.1949, M.1950, M.1956; FIP1901-126-752,Vol2; FIP1912-126-752,Vol2; FIP1922-126-752,Vol2; FIP1948-119-752; FIP1956-119-4-752 | 1 | 04104-0152 |
| 12492 | STANDARD BRANDS LIMITED | 551 | CAMBRIDGE | | | Other Food Products Industries | | M.1960, M.1970, M.1980 | 1 | 04103-0215 |
| 12881 | SHOSHIN SYSTEMS INC. | 265 | CARLING | | | Electrical and Electronic Machinery, Equipment and Supplies, Wholesale | | 2001 Employment Survey | 1 | 04104-0203 |
| 13600 | TESC CONTRACTING LIMITED | 557 | CAMBRIDGE | | | Plumbing, Heating and Air Conditioning, Mechanical Work | | 2005 Select Phone | 1 | 04103-0215 |
| 13952 | UNNAMED MACHINE SHOP | 604 | воотн | FIP1901, FIP1922 - vacant lot M. 1949 - lists contractor FIP1956 - to be demolished | | Machine Shop Industry | | M.1920; FIP1901-126-759,vol2; FIP1912-125-759,vol2; FIP1922-125-759,vol2; FIP1948-119-759; FIP1956-119-3-759 | 2 | 04104-0150 |
| 14060 | UNCLE LORY'S VAC SHACK | 686 | BRONSON | | | Appliance, Television, Radio and Stereo Stores | | 2001 Employment Survey | 1 | 04104-0137 |
| 14515 | UNNAMED WASTE DISPOSAL SITE | | | | | | | Generic classification of former landfills in the Ottawa Area. | | |
| 14778 | URANIUM CANADA LIMITED | 580 | воотн | | | Industrial Chemicals Industries n.e.c. | | M.1960, M.1970, M.1980 | 1 | 04104-0150 |
| 14827 | WINDSOR HOME CLEANING | 555 | CAMBRIDGE | | | Services to Buildings and Dwellings | | 2005 Select Phone | 1 | 04103-0215 |
| 15049 | Computing Devices Canada Ltd | 475 | CAMBRIDGE | Cambridge Laundry Ltd at this location in 1920. | | Electronic Laboratory | | M.1900, M.1910, M.1920, M.1930, M.1940, M.1950 | 2 | 04104-0127 |
| 15082 | Department of Energy, Mines & Resources | 300 | LEBRETON | | | Government Department | | M.1960, M.1970, M.1980 | 1 | 04104-0152 |
| Former L | andfills | | | | | | | | | |
| HLUI_ID | | | Site Identification | | | | Operational Per | | | |
| 6130 | Commissioner Park (Carling A | Ave) | Ur-21 | | | Before 1924 (earliest Aer | iual photographs av | ailable sho no landfilling activity | | |

Privately Owned Former Landfill Site - City of Ottawa has no information regarding current environmental conditions

Underlined Text Text has been added, not included in HLUI
Possible Errors identified in MAP, to be confirmed by City of Ottawa's Policy Development & Urban Design Branch

Prepared By: *S. Petrovic City of Ottawa*Environmental Remediation Unit 2016-11-25

Ministry of the Environment and Climate Change

Freedom of Information and Protection of Privacy Office

12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Fax: (416) 314-4285 Ministère de l'Environnement et de l'Action en matière de changement climatique

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

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



November 25, 2016

RECEIVED

NOV 3 0 2016

Salim Eid DST Consulting Engineers Inc. 2150 Thurston Drive, Suite 203 Ottawa, ON K1G 5T9

Dear Salim Eid:

RE:

Freedom of Information and Protection of Privacy Act Request Our File # A-2016-07157, Your Reference GV-SO-027667

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 289 Carling Ave, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. We have applied the \$30.00 for this request from your initial payment. This file is now closed.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Kaitlynne Low at kaitlynne.low@ontario.ca.

Yours truly,

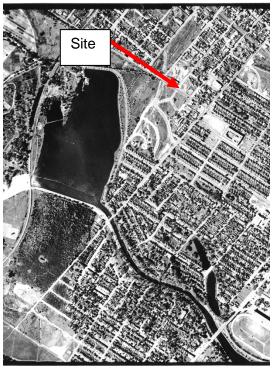
Tracey Goodwin FOI Manager (A)

APPENDIX C

Aerial Photographs



geoOttawa Aerial - 1928



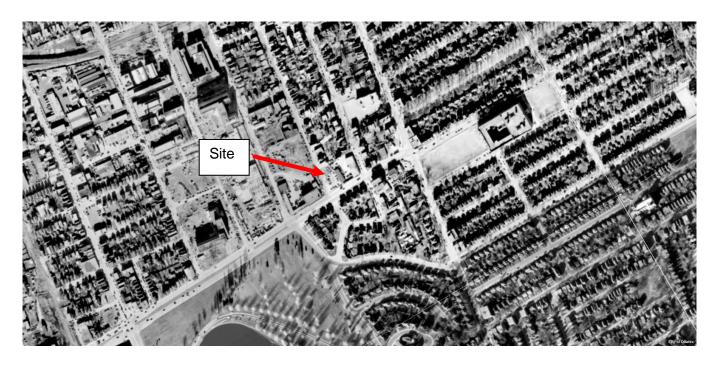
National Air Photo - 1938



National Air Photo - 1946



National Air Photo - 1950



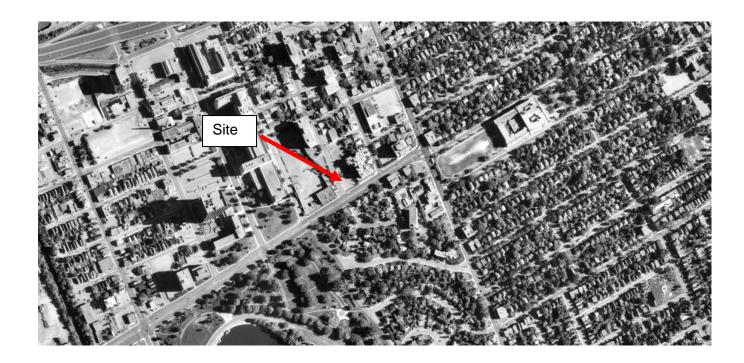
geoOttawa Aerial - 1958



geoOttawa Aerial - 1965



GeoOttawa Aerial - 1976



geoOttawa Aerial - 1991



geoOttawa Aerial - 2011



geoOttawa Aerial - 2014

APPENDIX E

Site Photographs



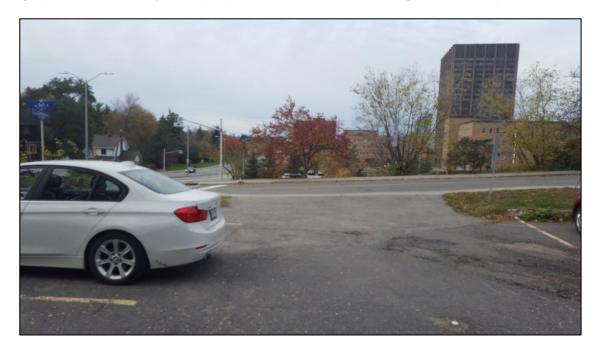
Photograph 1: View of south side of Site, facing south (October 27, 2016)



Photograph 2: View of Carling Avenue from south side of Site, facing southeast (October 27, 2016)



Photograph 3: View of adjacent properties to the south, facing southwest (October 27, 2016)



Photograph 4: View of Site entrance and west adjacent property, facing west (October 27, 2016)



Photograph 5: View of Site looking northwest towards Bell Street (October 27, 2016)



Photograph 6: View of north side of Site (October 27, 2016)



Photograph 7: View of northeast corner of Site (October 27, 2016)



Photograph 8: View of adjacent property to the east, view northeast (October 27, 2016)



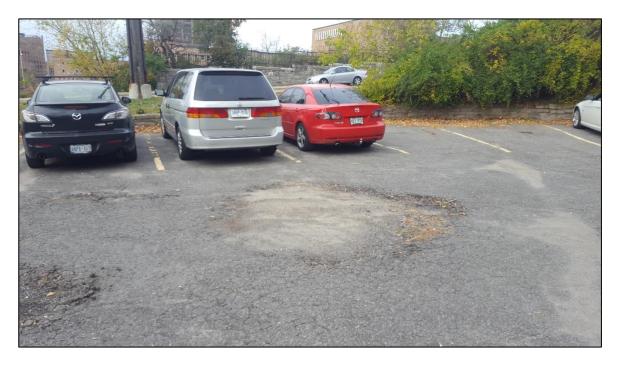
Photograph 9: Adjacent property to the east of Site (October 27, 2016)



Photograph 10: View of retaining wall at east property boundary (October 27, 2016)



Photograph 12: View of diesel generator locate on east adjacent property (October 27, 2016).



Photograph 13: Photo of worn and damaged asphalt (October 27, 2016).



Photograph 14: Photo of damaged asphalt near parking lot entrance (October 27, 2016).

APPENDIX F

Qualifications of Assessor(s)

Qualifications of Assessors

Ginger Rogers, P.Geo., is a Senior Project Manager and qualified professional with over 19 years of geological, environmental and project management experience. She has managed numerous large-scale, high budget, highly complex projects involving site conceptual modelling, geological mapping, hydrogeological assessments, environmental site assessments, contaminated site remediation, environmental liability assessments, environmental audits, facility decommissioning and risk assessment/management, for industrial and commercial clients as well as major petroleum operators, both downstream and upstream. She has been involved in various projects throughout Canada. She has managed teams of engineers, geoscientists and other professionals in environmental consulting industry.

Eric Domingue, P.Eng., M.A.Sc., is a geological engineer with 19 years of experience in environmental field studies including all Phases for ESA's, risk assessment field work, site remediation, specifications and tender documents, site supervision, audit management/remediation environmental compliance audits and mining consulting services. He participated in the creation of guidelines for providing safe drinking water in areas of federal jurisdiction on behalf of the Interdepartmental Working Group on Drinking Water Health Canada, and authored the Drinking Water Guidelines and Implementation Framework for Canadian Diplomatic Missions on behalf of Foreign Affairs Canada. He has been involved in various projects in Canada and abroad. He has managed teams of engineers and professionals in environmental, geotechnical, civil and structural engineering.

APPENDIX G

Limitations of Report

Limitations of Report

DST Consulting Engineers Inc. (DST) has prepared this report for the exclusive use of the City of Ottawa. The information, conclusions and recommendations given herein are specific for this project and the City of Ottawa only, for the scope of work described herein. DST will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of DST. DST accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions based on this report.

This report presents an overview of issues of potential environmental concern, reflecting DST's best judgment using information reasonably available at the time of DST's Site reconnaissance. The assessment was partly based on information from various sources of which the accuracy has not been verified, and because observations made during the Site reconnaissance may have been limited by existing conditions, this report does not guarantee that the subject property is free of hazardous or potentially hazardous material or conditions, or that latent or undiscovered conditions will not become evident in the future. DST has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to DST at the time of the Site reconnaissance and assessment.

The conclusions regarding environmental conditions, which are presented in this report, are based on a scope of work authorized by the City of Ottawa. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground. This report therefore cannot warrant that all conditions on or off the subject property have been identified within this assessment.

Since onsite and surrounding activities are beyond DST's control, and can change at any time after the completion of this assessment, the observations, findings, and opinions can be considered valid only as of the date provided on this report.

Conclusions and recommendations contained in this assessment were developed in accordance with currently accepted engineering standards and practices. Standards, guidelines and practices related to environmental investigations may change over time. Those which were applied at the time of this investigation may be obsolete or unacceptable at a later date.